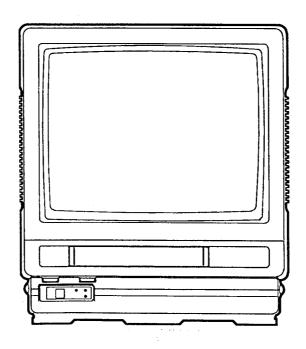


14" COLOR TV / VCR COMBINATION

TVR-1400A MK6



GENERAL SPECIFICATIONS

		f	2
A) System		6) Tape speed:	23.39 mm/sec
1) CRT:	14", Tinted Tube	, , ,	(PAL/MESECAM)
2) Color system:	PAL / MESECAM		33.40 mm/sec (NTSC)
,	NTSC 4.43	7) Timer recording:	1 month, 4 events
	(Playback only)		(Daily or weekly recording
3) Receivable channel:			is available.)
(C.C.I.R. ch +	[VHF L],E2~E4ch	One touch timer	Every 30 minutes,
O.I.R.T. ch)	[VHF H]E5~£12ch	recording:	8 hours max
	[UHF]21~69ch	9) Auto functions:	Power On/Off, Play,
	System D/K	-	Rewind, Eject, Rerpert
	[VHF L]R1~R5ch	C) IR Remote Control:	(29 keys)
	[VHF H]R6~R12ch	•	Power, Call, Sleep,
	[UHF]21~69ch		10 numerical keys (0~9)
Tuning system:	Voltage synthesizer		Mute, Program, Select,
	(40 stations can be	Aug.	Channel/Tracking Up,
	memorized)		Channel/Tracking Down,
	Automatic channel preset		Clear/Reset, Memory,
5) Control knobs			Volume/Control Up,
Main switch:	Push switch (rear side)		Volume/Control Down,
Power:	Key		Rew, Play, F. Fwd,
Volume:	2-Keys (up/down) 2-Keys (up/down)		Pause/Still, Timer set, Stop, Record
Channel: Play:	Key	D) Indicators	(LED)
Stop/Eject:	Key	D) III dicators	Stand by (Green),
Fast Forward:	Key		Rec (Red),
Rewind:	Key		Timer rec (Red)
Record:	Key	E) Mechanical	
External connections	· ·	1) Dimensions:	362(W)X366(D)X399(H)
Antenna:	75Ω IEC jack		mm
Video in:	BNC jack	2) Cabinet:	All plastic cabinet
Audio in:	RCA jack	3) CRT cover	Acryle mold
Earphone jack:	ø3.5mm jack (switched)	4) Weight:	14.0Kg
Power supply:	AC inlet	5) Packing weight: 260	a15650 ≥ 3ti
7) Degauss:	Automatic Degaussing	F) Power supply	
	(D. G. system runs as	1) Rating requirement:	
	main power switch is	2) Consumption:	75W
O) Consider	Turned on.)	G)Miscellaneous	100011101
8) Speaker:	3" round type	1) Head life time:	1000H (Change tape at
9) Audio output power:	0.9 W	O) Cafatu Basulatiana	every 200H)
B) VCR	Twin hand harical coopning	2) Safety Regulations:	IEC-65 passable
Recording system:	Twin head herical scanning	H) Accessories.	
2) Loading system:	HQ system	1) Remote control unit	
 Loading system: Video signal: 	Front loading PAL 625 lines, 50Hz	2) Battery "R03" X 2	
4) Tape format:	Width 1/2", 1 Audio track	3) Monopole antenna fo	
5) Rec/Play time:	4 hours	AC cord set (with IEC With IEC With IEC With IEC	rype A plug)
e, moon lay lillo.	(PAL/MESECAM, E-240)	→/ Owner's manual	• •
	2 hours 40 minutes		•
N.	(NTSC, T-160)		

B6407SP1

PERFORMANCE SPECIFICATIONS

* Test input terminal • • • • • Video input (1Vp-p) • • • • Audio input (-10dBs)

<TUNER>

Description	Condition	Unit	Nominal	Limit
1. Channel	VHF Low	CH	E2-E4/R1-R5	Limit
CCIR ch / OIRT chieve And	VHF High	СН	E5-E12/R6-R12	_
194 L	UHF	СН	21-69	
2. Intermediate freq.	Picture	MHz	38.0	_
0.55	Sound	MHz	32.5/31.5	
3. Video S/N	(E10 ch)	dB	44	38
4.Audio S/N (W/LPF)	(E10 ch)	dB	45	38

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<DEFLECTION>

Condition	Unit	Nominal	L 1
Horizontal		Nominal	Limit
(PAL/SECAM)	KHz	15.625	
(NTSC) Vertical	KHz	15.734	_
(PAL/SECAM)	Hz	50	
(NTSC)	Hz	60	
	%	90	·
		-	10
vertical		-	7
	Horizontal (PAL/SECAM) (NTSC) Vertical	Horizontal CPAL/SECAM KHz (NTSC) KHz Vertical (PAL/SECAM) Hz (NTSC) Hz	Horizontal (PAL/SECAM) KHz 15.625 (NTSC) KHz 15.734 Vertical (PAL/SECAM) Hz 50 (NTSC) Hz 60 90 Horizontal % — Vertical % —

<VIDEO & CHROMA>

Description	Condition	Unit	Nominal	1.1
Misconvergence	Center		Nominai	Limit
3-11-0		m/m	1 - 1	0.3
	Corner	m/m	-	1.5
0.00-1	Side	m/m	_	1,2
2. Contrast Control Range		dB	6	4
3. Brightness	APL 100%	ft-L	55	40
I. Color Temperature	-	°K	8000-10MPCD	
5. Resolution	Horizontal	Line	300	280
	Vertical	Line	300	270

<AUDIO>

1

All items are measured across 8Ω speaker output terminal.

Description	Condition	Unit	Nominal	Limit
1. Audio Max. Output	_	W	0.9	0.7
2. Audio S/N (W/LPF)	500mW	dB	45	38
3. Audio Distortion (W/LPF)	500mW	. %	γ _κ 3 ης,	
4. Audio Freg. Response (W/LPF)	50mW	200Hz dB		n span -7 gia
	-20dBs in	6KHz dB	+2	-5

afety to

<VCR:

Description	Condition	Unit :	n Nominal	Limit
1. Horizontal Resolution	F6M	Line 😁	ານ 230	220
2. Audio S/N ratio	F6A	ejde. Bb	eq : 40	35
3. Wow & Flutter WRMS/CCIR	F6L	% 0.00	0.3	0.5
4. Jitter	F6N	μS ∵ ⊜os	0.07	0.25
5. Audio S/N ratio	R/P	dB	41	37
6. Audio Freg. resp. 200Hz	-20dBs in	dB	-3.6	±8
6KHz	R/P	dB	+2.2	±8

Note: Nominal specifications represent the design specifications. All units should be able to approximate these-some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable; in no case should a unit fail to meet limit specifications.

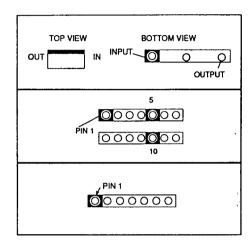
STANDARD NOTES FOR SERVICING

Circuit Board Indications

 a. The output pin of the 3 pin Regulator ICs is indicated as shown;

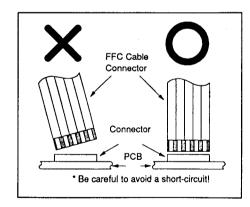
b. For other ICs, pin 1 and every fifth pin are indicated as shown:

c. The 1st pin of every pin connector are indicated as



Instructions for Connectors

- When you connect or disconnect FFC (Flexible Foil Connector) cable (connector), be sure to disconnect the AC cord.
- 2. FFC cable (connector) should be inserted parallel into the connector, not at an angle.



How to Read the Values of the Cylindrical Type Chip Components

The widest color band must be read first for value.



EXAMPLE:

(a) Resistor



 $=273=27\,[\mathrm{k}\Omega]$

(b) Capacitor



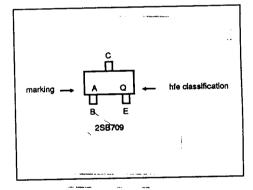
= 103 = 0.01 [uF]

CAUTION:

Once chip parts (Resistors, Capacitors, Transistors, etc.) are removed, they must not be reused. Always use a new part.

How to Read the Identification Mark of Chip Transistors in this Unit.

PART NO.
2SB709
2SC2404
2SD601
2SD1328
DTC124EK
DTC144EK
2SC3757
UN2113
UN2212
UN2213



Replacement Procedures for Leadless (Chip) Components

The Following Procedures are Recommended for the Replacement of the Leadless Components Used in this Unit.

- 1. Preparation for replacement
- a. Soldering Iron

Use a pencil-type soldering iron (less than 30 watts).

b. Solder

Eutectic solder (Tin 63%, Lead 37%) is recommended.

c. Soldering time

Do not apply heat for more than 4 seconds.

d. Preheating '

Leadless capacitor must be preheated before installation.

(130 °C-150 °C, for about two minutes.)

Note:

- a. Leadless components must not be reused after
- Excessive mechanical stress and rubbing for the component electrode must be avoided.

ously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- A. Parts identified by the ($\underline{\Lambda}$) symbol are critical for safety.
- Replace only with part number specified.
- B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements. Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- **D.** Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - -3) Spacers
 - 4) Insulators for transistors.
- E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- G. Check that replaced wires do not contact sharp edged or pointed parts.

- H. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.
- I. Also check areas surrounding repaired locations.
- J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector

When replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, in order to prevent shock hazards, perform carefully and precisely the following steps.

Replacement procedure

- 1) Remove the old connector by cutting the wires at a point close to the connector.
- Important: Do not re-use a connector (discard it).
- Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- Align the lengths of the wires to be connected.
 Insert the wires fully into the connector.
- Use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the VCR conp. nectors, first, disconnect the AC plug from AC supply socket.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the tollowing tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Region	Clearance Distance (d) (d')
200 to 240 V	Europe Australia	≥ 4mm (d) ≥ 6mm (d')

Note: This table is unofficial and for reference only.

Be sure to confirm the precise values.

2. Leakage Current Test

Confirm specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

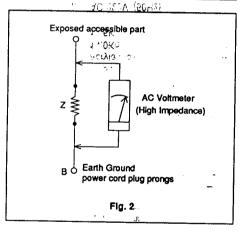


Table 2: Leakage current ratings for selected areas

AC Line Voltage	Region	Load Z	Leakage Current (i)	Earth Ground (B) to:
200 to 240 V Europe Australia		2kΩ RES. in connected	i≤0.7mA rms i≤2mA dc	Antenna terminals
		50kΩ RES.	i≤0.7mA rms	Other terminals
		in connected	i≤2mA dc	Other terminals .

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

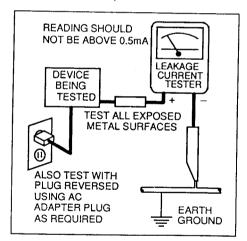
IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for TV Circuit

- Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:
- a. Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.
- b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
- c. Antenna Cold Check With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer.

- Repeat this test with the instrument AC switch in the off position.
- d. Leakage Current Hot Check With the instrument completely reassembled, plug the AC line cord directly into a AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester. With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metalicabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

- e. X-Radiation and High Voltage Limits Because the picture tube is the primary potential source of X-radiation in solid-state TV receivers, it is specially constructed to prohibit X-radiation emissions. For continued X-radiation protection. the replacement picture tube must be the same type as the original. Also, because the picture tube shields and mounting hardware perform an X-radiation protection function, they must be correctly in place. High voltage must be measured each time servicing is performed that involves B+, horizontal deflection or high voltage. Correct operation of the X-radiation protection circuits also must be reconfirmed each time they are serviced. (X-radiation protection circuits also may be called "horizontal disable" or "hold down,") Read and apply the high voltage limits and, if the chassis is so equipped, the X-radiation protection circuit specifications given on instrument labels and in the Product Safety & X-Radiation Warning note on the service data chassis schematic. High voltage is maintained within specified limits by close tolerance safety-related components/adjustments in the high-voltage circuit. If high voltage exceeds specified limits, check each component specified on the chassis schematic and take corrective action.
- Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.
- 3. Design Alteration Warning Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.
- 4. Picture Tube Implosion Protection Warning
 The picture tube in this receiver employs integral
 implosion protection. For continued implosion protection, replace the picture tube only with one of the
 same type number. Do not remove, install, or otherwise handle the picture tube in any manner without
 first putting on shatterproof goggles equipped with
 side shields. People not so equipped must be kept
 safely away while picture tubes are handled. Keep
 the picture tube away from your body. Do not handle

the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; because of potential hazard, do not try to remove such "permanently attached" yokes from the picture tube.

5. Hot Chassis Warning -

- a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0V is obtained, "remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
- b. Some TV receiver chassis have a circuit which obtain voltage about 70% of AC voltage between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
- c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
- Note: * In case unit has no polarity AC plug only.
- 6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
- 7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
- Product Safety Notice Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual

2. Removing the leadless component

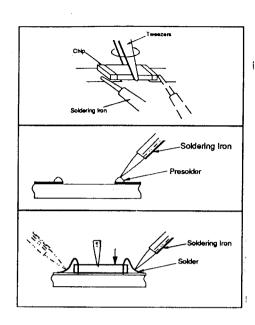
Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes has melted, remove leadless component with a twisting motion.

Note:

- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by the twisting action.
- Take care not to break the copper foil on the printed board.
- 3. Installing the leadless component
 - a. Presolder the contact points of the circuit board.
 - b. Press the part downward with tweezers and solder both electrodes as shown at right:

Note:

Do not glue the replacement leadless component to the circuit board.



How to Remove / Install Flat Pack IC

1. Removal

With Hot - Air Flat Pack - IC Desoldering Machine:

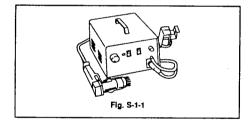
- (1)Prepare the HOT AIR FLAT PACK IC DESOLDER-ING MACHINE, then apply hot air to Flat Pack - IC (about 5~6 seconds). (Fig. S-1-1)
- (2)Remove the Flat Pack- IC with tweezers while applying the hot air.

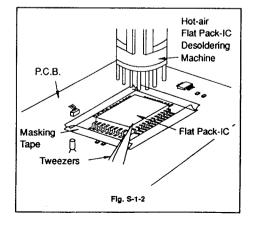
Caution:

- Do not supply the hot air to the chip parts around the Flat Pack - IC for over 6 seconds as damage may occur to the chip parts. Put Masking Tape around the Flat Pack-IC to protect other parts from damage. (Fig. S-1-2)
- The Flat Pack IC on the P.C.B. is affixed with glue, so be careful not to break or damage the foil of each pin or solder lands under the IC when removing it.

With Soldering Iron:

- (1)Using desoldering braid, remove the solder from all pins of the Flat Pack IC. When you use solder flux which is applied to all pins of the Flat Pack IC, you can remove it easily. (Fig. S-1-3)
- (2)Lift each lead of the Flat Pack IC upward one by one, using a sharp pin or wire: to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air Desoldering Machine. (Fig. S-1-4)



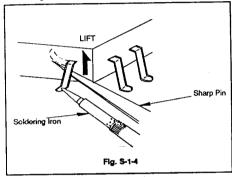


With Iron Wire:

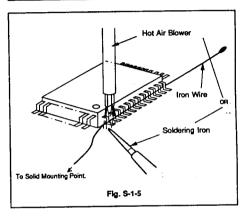
- (1)Using desoldering braid, remove the solder from all pins of the Flat Pack - IC. When you use solder flux which is applied to all pins of the Flat Pack - IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3)Pull up on the wire as the solder melts so as to lift the IC leads from the P.C.B. contact pads, while heating the pins using a fine Tip soldering iron or hot air blower.

Note:

When using a soldering iron, care must be taken to ensure that the Flat Pack - IC is not being held by glue, or when it is removed from the P.C.B., it may be damaged if force is used.

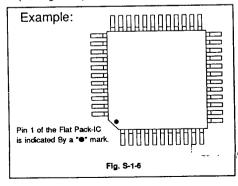


Desoldering Braid Flat Pack-IC Soldering Iron Flg. S-1-3

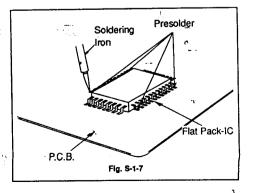


2. Installation

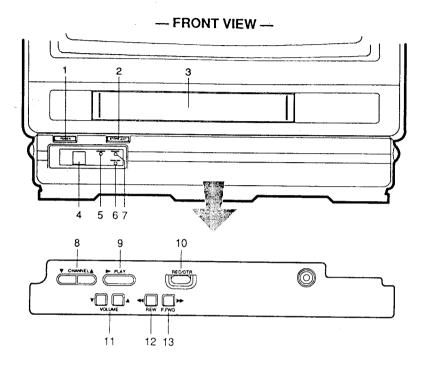
- (1)Using desoldering braid, remove the solder from the foil of each pin of the Flat Pack - IC on the P.C.B., so you can install a replacement Flat Pack - IC more easily.
- (2)The "O" mark on the Flat Pack IC indicates pin 1 (See Fig. S-1-6). Make sure this mark matches the 1

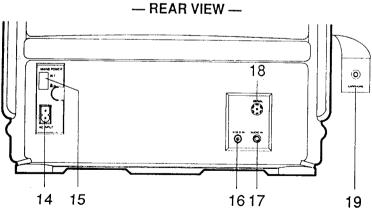


- on the P.C.B. when positioning for installation. Then pre solder the four come so of the Flat Pack-IC (See Fig. S-1-7).
- (3)Solder all pins of the Flat Pack IC. Make sure that none of the pins have solder bridges.



OPERATING CONTROLS AND FUNCTIONS





- 1 POWER button-To turn the unit on and off.
- 2 STOP/EJECT button-To stop tape motion and remove the tape from VCR.
- 3 CASSETTE COMPARTMENT
- 4 REMOTE SENSOR- Receives the infrared control signals from the handheld remote con-
- 5 STANDBY indicator Lights when the AC plug is inserted into the AC outlet and Mains Power switch is ON.
- 6 TIMER REC indicator Lights when in the Timer Recording mode.
- cording mode.
- 8 CHANNEL ▼ / ▲ button- To select desired channel number by pressing either "▼" or "▲" button. They may also be used to adjust tracking control when tape is in play mode. They can not be used during TIMER RECORDING.
- 9 PLAY button—To begin playback of a tape. 18 AERIAL jack—Connect 75-ohm antenna.
- 10 REC/OTR button- Press to begin manual recording and activate one touch recording mode.

- 11 VOLUME ▼ / ▲ button-To adjust the volume level.
- 12 REW ◀◀ button- To rewind tape or to view video in reverse during play mode at a faster than normal speed. Press play button to return VCR to normal playback speed.
- 13 F.FWD >> button- To advance tape faster than normal or to view video, in forward direction, during play mode at a faster than normal speed. Press play button to return VCR to normal playback speed.
- 14 AC INPUT-Connect the AC cord.
- 7 RECORD indicator Lights when in the Re- 15 MAINS POWER- Switches the mains supply on and off. (Set switch ON position at the fac-
 - 16 VIDEO INPUT jack-Connect to video output iack of your video camera or another VCR.
 - 17 AUDIO INPUT jack-Connect to audio output jack of a video camera or another VCR.

 - 19 EARPHONE jack-To connect earphones (not supplied) for personal listening. This mutes the speaker.

1 :

Cleaning

1. Cleaning of Video Head

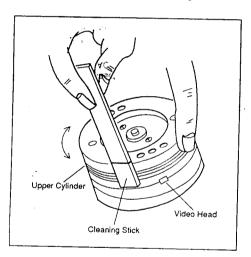
Use a Head Cleaning Stick.

Procedure

- 1.Remove the top cabinet.
- 2. Put on a glove (thin type) to avoid touching the upper drum and lower drum with bare hands. 3. Put a few drops of 91' Isoprophyl Alcohol on the Head
- Cleaning Stick, and by slightly placing it against the head tip, allow the upper drum to turn to the right and left.

NOTE:

- 1. The video head is very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry out before operating the unit, or damage will occur.
- 3.Do not reuse the stained Head Cleaning Stick.



2. Cleaning of Audio Control Head

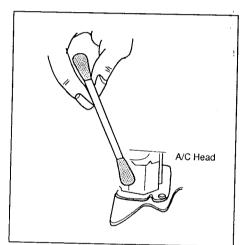
Use a cotton swab.

Procedure

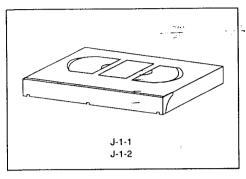
- 1.Remove the top cabinet.
- 2.Put a few drops of 91% Isoprophyl Alcohol on the cotton swab, and clean up the audio control head, being careful not to damage the upper drum and other tape running parts.

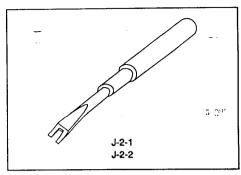
NOTE:

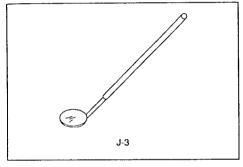
- 1. Avoid cleaning audio control head vertically.
- 2. Wait for the cleaned part to dry out, before operating the unit, or damage will occur.

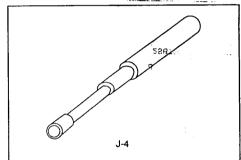


SERVICE FIXTURES AND TOOLS









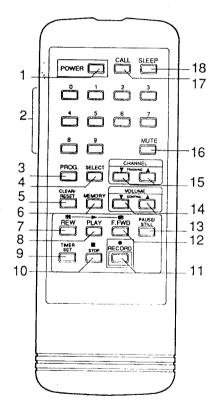
Ref. No.	o. Name Adjustment		
J-1-1	Alignment Tape (F6-A)	Head Adjustment of Audio Control Head	
J-1-2	Alignment Tape (F6-N): 2 Head 1 Speed Model		
J-2-1	Special Driver Large (FSJ-0001)	X Value	
J-2-2	Special Driver Small (FSJ-0006)	Guide Roller * -	
J-3	Mirror (FSJ-0004)	Tape Transportation Check	
J-4	Box Driver Mx3 (ES.#0005)	Guide Pole / A/C Head Height	

REMOTE CONTROL OPERATION

You can operate most of tape transport functions and TV control functions from the Remote Control (included). The buttons on the Remote Control have the same functions as the corresponding buttons on the unit.

HOW TO USE REMOTE CONTROL

1 POWER button- To turn the unit on and off.

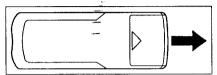


- 2 NUMBER buttons—To select desired channels and menu. They cannot be used to set desired channel during Timer Recording. To select channels 1 to 9, first press the 0 button and then press desired channel button 1 to 9.
- 3 PROG. button- To set CLOCK, LANGUAGE SELECT, PRESETTING OF THE CHANNELS, TIMER RECORD PROGRAM and REPEAT MODE.
- 4 SELECT button To select setting mode and adjust picture controls.
- 5 CLEAR/RESET button- To reset counter to 0000. And channel memory delete.
- 6 MEMORY button—To set counter memory on and off. And channel memory add.
- 7 REW button—To rewind tape or to view video in reverse during play mode at a faster than normal speed. Press PLAY button to return normal playback speed.
- 8 PLAY button-To playback the tape.
- 9 TIMER SET button To activate the automatic recording timer.
- 10 STOP button- To stop the tape.
- 11 RECORD button-To begin recording.
- 12 F.FWD button- To advance tape, or to view video in forward direction during play mode at a faster than normal speed. Press PLAY button to return normal playback speed.
- 13 PAUSE/STILL button- To stop the tape, temporarily during playback or recording. To view a still picture during playback.
- 14 VOLUME/CONTROL buttons—To adjust desired volume level by pressing either "▼" or "▲" button. They may also be used to adjust the picture control.
- 15 CHANNEL/TRACKING buttons— To select desired channel number by pressing either "▼" or "▲" button. They may also be used to adjust tracking control when tape is in play mode. They can not be used during TIMER RECORD-ING.
- 16 MUTE button To mute sound. Press again to resume sound.
- 17 CALL button—To call channel display, counter number, and the current time on the screen.
- 18 SLEEP button- To activate the sleep function.

INSTALLING THE BATTERIES

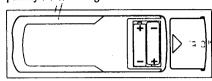
11

Slide the battery compartment cover on the remote unit in the direction of the arrow.

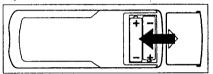


2

Insert 2 "R03" penlight batteries into the battery compartment in the direction as indicated by the polarity (+/-) markings.



3 Replace the cover



Instructions for Handling Semiconductors

Electrostatic breakdown of the semiconductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

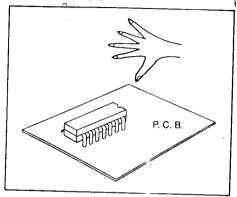
Ground for Human Body

Be sure to wear a grounding band (1M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

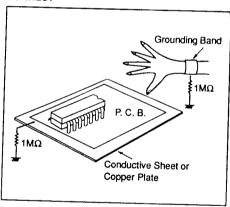
Ground for Work Bench

Be sure to place a conductive sheet or copper plate with proper grounding (1M ohm) on the work bench or other surface, where the semiconductors are to be placed. Because the static electricity charge on the clothing will not escape through the body grounding band, be careful to avoid contacting semiconductors to clothing.

INCORRECT



CORRECT



STANDARD MAINTENANCE

Service Schedule of Components

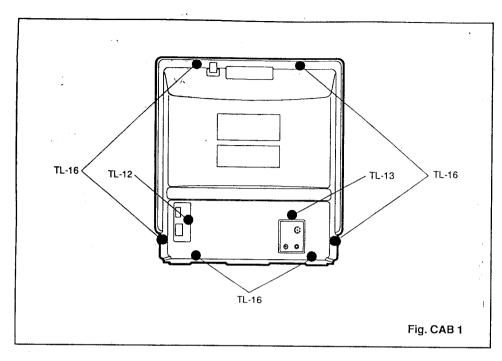
. ...

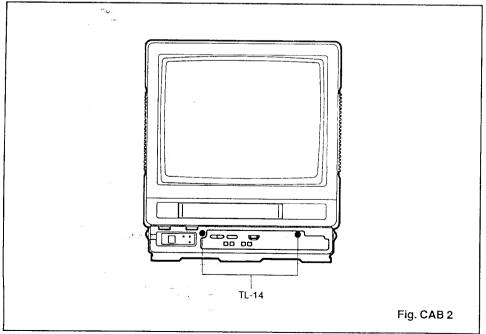
H: Hours	O: Check	: Chang
----------	----------	---------

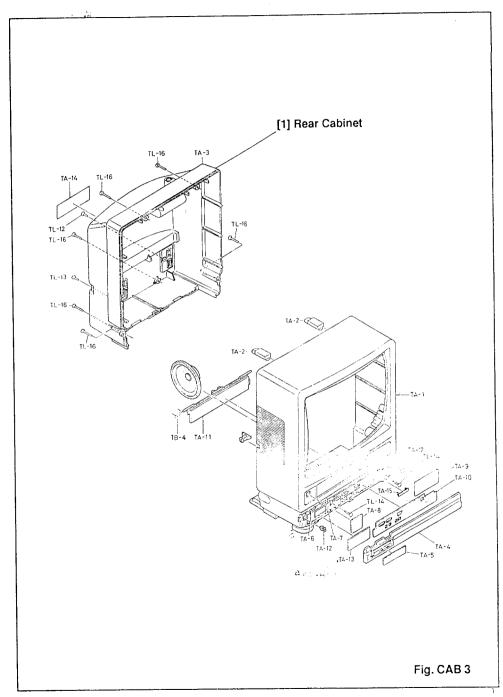
	Deck	Periodic Service Schedule			
Ref. No.	Parts Name	1,000 H	2,000 H	3,000 H	4,000 H
2	Upper Drum	0	•	0	•
134	Pinch Roller (A)		• .		•
171	Capstan Motor Assembly		•		•
229	Clutch Assembly		•		•
281	LM Assembly (Loading Motor)			•	
173	Main Belt		•		singe (f)
196	Back Tension Band		•		***
233	Drive Belt		•		•
251	Brake Shoe		•		•
285	Loading Belt		•		•
373	Front Loading Belt		•		•
14, 19	Drum Ground			•	
82	ACE Head (Play only model: AC Head)			•	
• 92	Full Erase Head			•	
121	Reel Assembly			•	

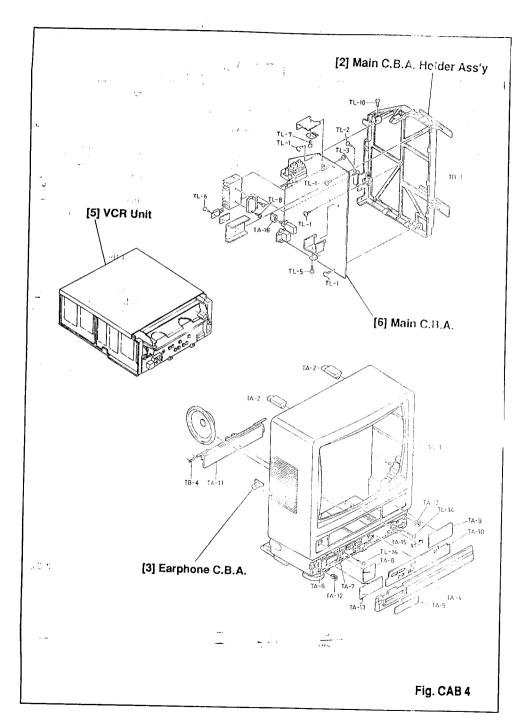
Note:

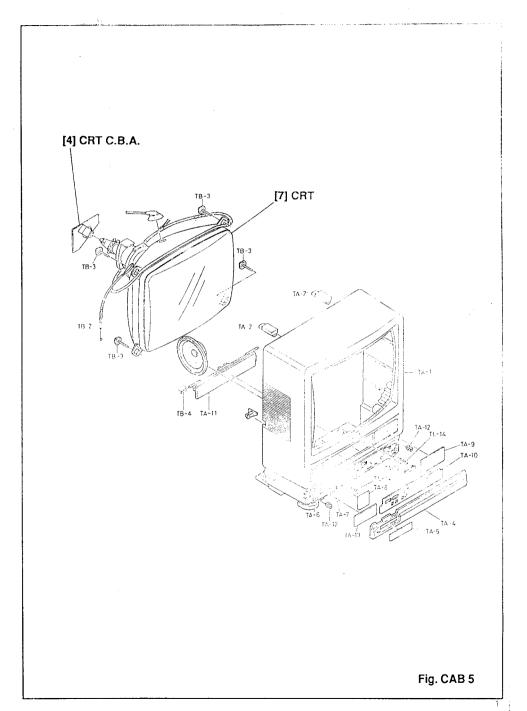
- 1. Clean all parts for the tape transport (Upper Drum with video head / Pinch Roller / Audio Control Head / Full Erase Head) using 91% Isoprophyl Alcohol.
- 2. After cleaning up the parts, perform all DECK ADJUSTMENTS.
- 3. All Reference Numbers listed above refer to parts shown on Deck Exploded View.
- 4. Parts marked * are used in Rec/Play model only.











NOTE: All C.B.A.s are drawn as installed in the cabinet. [6] Main C.B.A. (Top View) Focus Wire LD2 Screen Wire LD701 CN201 0 TP6 CN601 CN501 LD702 [4] CRT C.B.A. (Top View) [3] Earphone C.B.A. (Top View) LD702 Focus Wire J702 CN1 LD2 Screen Wire 1 CN701 CRT Socket LD701 Fig. CAB 6

DISASSEMBLY INSTRUCTIONS [VCR]

DISASSEMBLY FLOW CHART

This flow chart indicates the disassembly steps of the cabinet parts, VCR Unit and the P.C. Boards in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in the reverse order. Bend, route and dress the cables as they were originally.

Note:

Remove VCR Unit from the Cabinet first.

		REMOVAL	· · · · · · · · · · · · · · · · · · ·
PART	FIG. NO.	REMOVE/UN-LOCK/RELEA-SE/UNPLUG/UCLAMP/DESOLDER	NOTE
Top Panel	Fig. 1	2(S-1)	1
Head Amp/Audio/	Fig. 2	2(L-1), (CN3501, CN3502, CN3503, CN3504, CL4001, CL4002, CN4003)	2
Syscon C.B.A.	Fig. 3		
Deck Ass'y	Fig. 4	3(S-2), (CN2001), (CN6004)	3
Control Ass'y	Fig. 5	6(L-2), (CN5501)	4_
Main C.B.A.	Fig. 6	5(L-3), (S-2)	5

Reference < Notes > in Table

- 1. Remove 2 Screws(S-1).
- Disconnect the Connectors (CN3501, CN3502, CN3503, CN3504, CN4003), releasing 2 Locking Tabs (L-1).
 Then disconnect the remaining 2 Connectors (CL4001, CL4002).
- 3. Remove 3 Screws(S-2). Disconnect the 2 Connectors (CN2001), (CN6004).
- 4. Release 6 Locking Tabs(L-2). Disconnect the connector (CN5501).
- 5. Release 5 Locking Tabs(L-3). Remove Screw (S-2).

DISASSEMBLY, INSTRUCTIONS [TV]

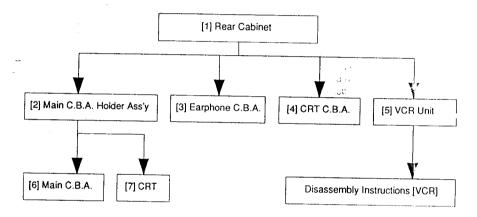
General Note: "C.B.A." is abbreviation for "Printed Circuit Board Assembly".

1. DISASSEMBLY FLOW CHART

This flow chart indicates the disassembly steps of the cabinet parts, VCR Unit and the C.B.A. in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in the reverse order. Bend, route and dress the cables as they were originally.

Caution !

When removing the CRT, make sure to discharge Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.



2. DISASSEMBLY METHOD

STEP			REMOVAL	
/ LOC. NO.	PART	FIG. NO.	REMOVE / *UNLOCK / RELEASE / UNPLUG / UNCLAMP / DESOLDER	NOTE
[1] JAC 5.	Rear Cabinet	CAB1	6 (TL-16) , (TL-12) , (TL-13)	1
		CAB3		
[2]	Main C.B.A. Hölder	CAB4	(CN201), (CN501), (CN601), (LD2), (LD701), (LD702),	2
ļ	Ass'y	CAB6	(TP6), (Anode Cap), (Focus Wire), (Screen Wire)	2
[3]	Earphone C.B.A.	CAB4	(CN1), (LD2)	
		CAB6	() ((202)	3
[4]	CRT C.B.A.	CAB5	(CN701) , (J702) , (LD701) , (<u>LD7</u> 02) ,	4
		CAB6	(Focus Wire) (Screen Wire)	4
[5]	VCR Unit	CAB2	2 (TL-14) , (CN601)	5
		CAB4	, , , ,	3
		CAB6	**	
[6]	Main C.B.A.	CAB4	4 (TL-1) , (TL-2) , (TL-10)	6
[7]	CRT	CAB5	4 (TB-3)	$-\frac{3}{7}$

Reference < Notes > in Table

1.

1) Remove 6 screws (TL-16), screw (TL-12) and screw (TL-13) and then slide the Rear Cabinet backward.

2.

- 1) If not already removed, first remove the Rear Cabinet.
- 2) Remove all relative wires on the Main C.B.A. (located right side in the cabinet), and remove the Anode Cap, then slide the main C.B.A. Holder Ass'v backward.

Caution!

Discharge Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.

3.

- 1) If not already removed, first remove the Rear Cabinet.
- 2) Remove 2 connectors on the Earphone C.B.A., then slide the C.B.A. backward.

Note: When' re-installing, set Earphone jack (EP1) side below.

4.

- 1) If not already removed, first remove the Rear Cabinet.
- 2) Remove all relative wires, then pull the CRT C.B.A. backward

5.

- 1) If not already removed, first remove the Rear Cabinet.
- 2) Remove 2 screws (TL-14) inside the Control Door, and remove connector on the Main C.B.A., then slide the VCR Unit backward.

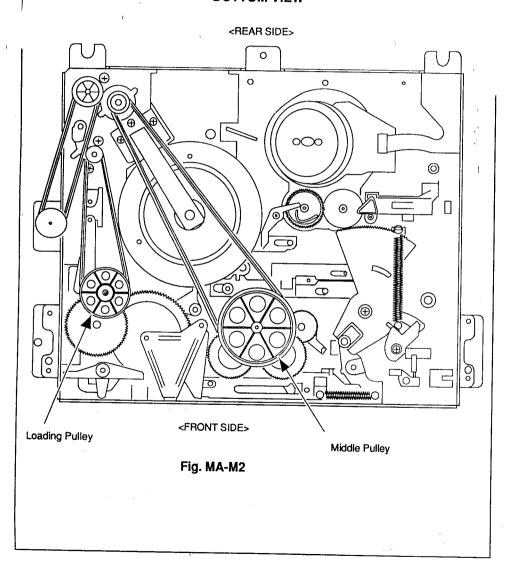
6.

- 1) If not already removed, first remove the Rear Cabinet.
- 2) Remove the Main C.B.A. Holder Ass'y.
- Remove 4 screws (TL-1), screw (TL-2) and screw (TL-10) first, release 6 hooks next, then Main C.B.A. can be removed.

7.

- 1) If not already removed, first remove the Rear Cabinet and Main C.B.A. Holder Ass'y.
- 2) Remove 4 screws (TB-3), then the CRT can be removed.

BOTTOM VIEW



1. TAPE INTERCHANGEABILITY ADJUSTMENT (FINAL ADJUSTMENT)

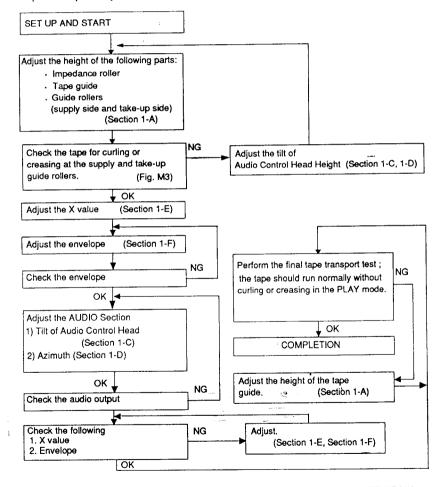
NOTE

To perform these adjustment procedures, that sure that the Tracking Control is set in the neutral position. (Press the channel up and down bottons of the unit together during PLAY mode.)

Equipment required:

Dual Trace Oscilloscope Alignment Tape (F6-A, F6-N) Special Driver Large (FSJ-0001) Special Driver Small (FSJ-0006) Mirror (FSJ-0004) Box Driver, Mx3 (FSJ-0005)

Tape Transport Adjustment Flow Chart



Note: Before attempting these mechanical adjustments, you must complete the ELECTRICAL ALIGNMENT INSTRUCTIONS.

1-A. CONFIRMATION AND ADJUSTMENT OF TAPE RUNNING POSITION

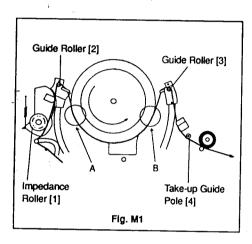
Purpose:

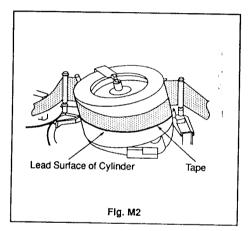
To make sure that the tape running is well stabilized.

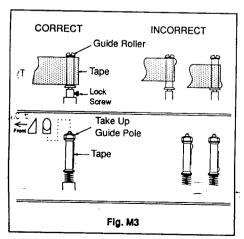
Symptom of Misadjustment:

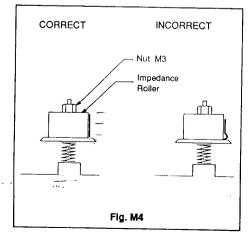
If the tape runs with instability, the tape will be damaged.

- 1. Play back a cassette tape and confirm that the tape runs without curling or creasing at the guide rollers [2] and [3] and at points A and B on the lead surface. (Refer to Fig. M1 and M2)
- If curling or creasing is apparent, adjust the height of guide rollers by turning the top of guide rollers [2] and [3] with the Special Driver Small. (Refer to Fig. M1 and M3)
- 3. Confirm that the tape runs without curling or creasing at the lower flange of Impedance Roller. If curling or creasing is apparent, adjust the height of Impedance Roller in both PLAY and REV modes by turning the Nut M3 with BOX DRIVER M3. (Refer to Fig. M4)









1-B. CONFIRMATION OF AUDIO CONTROL HEAD HEIGHT

Purpose:

To make sure that the tape runs properly along the Control Head.

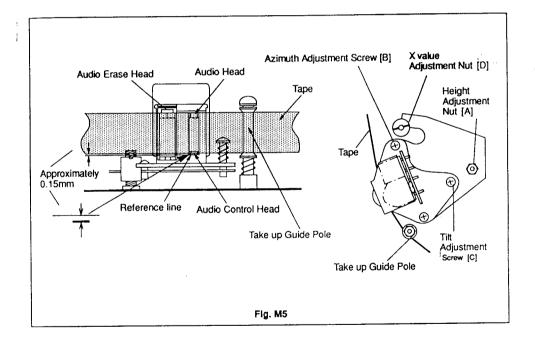
Symptom of Misadjustment:

- 04

If the control signal is not properly picked up, Servo Operation can not be achieved.

This confirmation is required for a preliminary height adjustment after replacing the Audio control Head. For final adjustments, perform items 1-C and 1-Dunb in a garage of the control o

 Play back a cassette tape. Looking at the lower edge of the Control Head with the tape in motion, ensure that the lower edge of the tape runs 0.15mm above the lower edge of the Control Head. If it doesn't, turn Height Adjustment Nut [A] slightly in either direction as necessary to correct it. Turn clockwise to lower the head and counter clockwise to raise it. (Refer to Fig. M5)



1-C. CONFIRMATION OF TILT OF AUDIO CONTROL HEAD

Purpose:

To confirm that the taper running is well stabilized. In particular, confirm that tape properly picks up the Audio Signal at the upper part and Control Signal at the lower part.

Symptom of Misadjustment:

If the tilt of the Audio Control Head is poorly adjusted, the tape will be eventually damaged.

Play back a cassette tape and confirm that the tape running between Take-up Guide Pole [4] in Fig.M1 and Audio Control Head by turning tilt adjustment screw [C] in Fig. M5 so that the tape has no slack.

1-D. HEIGHT ADJUSTMENT OF AUDIO CONTROL HEAD

Purpose:

To adjust the height of Audio Control Head so that it meets the tape tracks properly.

Symptom of Misadiustment

If the position of Audio Control Head is not properly adjusted, the Audio S/N Ratio or Frequency Response will be poor.

- 1. Connect the oscilloscope to the Audio output on the rear of the set.
- 2. Confirm that the tape running between the take up guide roller and the audio control erase head has no slack.

 If the tape has slack, take it up by turning the tilt adjustment screw [C]. Then readjust GUIDE ROLLER HEIGHT in section 1-A and the X value in section 1-E.
- 3. After confirming on the oscilloscope that a 1 kHz audio signal is being output by playing back For the strape, adjust the height adjustment nut [A] so that the AC voltmeter's reading is brought to its maximum level.
 - 4. Adjust the azimuth adjustment screw [B] so that the AC voltmeter's reading is brought to its maximum level.

NOTE: Fix the screw [C] with lock paint after readjustment.

AZIMUTH ADJUSTMENT OF AUDIO CONTROL HEAD

Purpose:

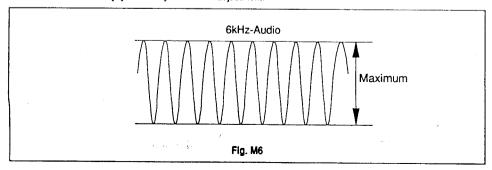
To adjust the height of Audio Control Head so that it meets the tape tracks properly.

Symptom of Misadjustment

If the position of Audio Control Head is not properly adjusted, the Audio S/N Ratio or Frequency Response will be poor.

- 1. Connect the oscilloscope to the Audio output on the rear of the set.
- After confirming on the oscilloscope that a 6kHz audio signal is being output by playing back F6-N test tape, adjust
 the azimuth adjustment screw [B] so that the AC voltmeter's reading or osilloscope waveform is brought to its
 maximum level.(Refer to Fig. M6)

NOTE: Fix the screw [C] with lock paint after readjustment.



-E. X VALUE ADJUSTMENT

'urpose:

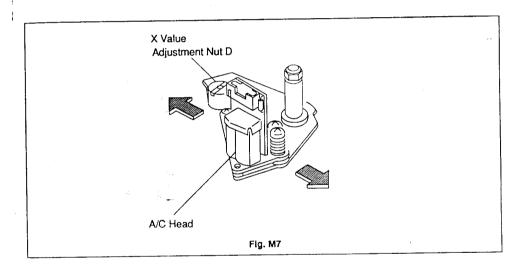
To adjust the horizontal position of the Audio Control Head.

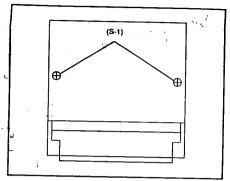
Symptom of Misadjustment:

If the horizontal position of the Audio Control Head is not properly adjusted, maximum envelope cannot be obtained at the neutral position of the Tracking Control.

- 1. Set tracking control to the neutral position.
- 2: Connect the oscilloscope to ENV(C-PB) on the Main PCB. Use RF-SW as a trigger.
- 3. Play back the monoscope portion of the alignment tape (F6-N) and confirm that the PB FM signal appears.
- 4. Adjust the X Value Adjustment Nut D in Fig. M7 for maximum PB FM signal.

Note: Press the channel up and down bottons of the unit together during PLAY mode to set the tracking control to neutral position.





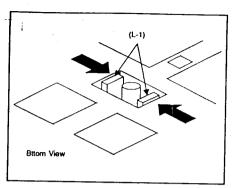
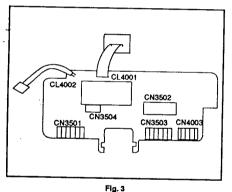


Fig. 1

Flg. 2



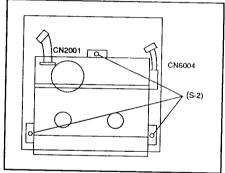


Fig. 4

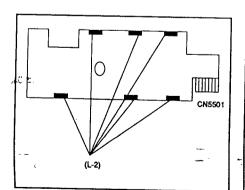
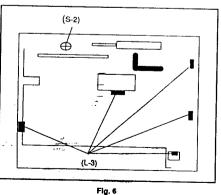


Fig. 5



MECHANICAL ADJUSTMENT PROCEDURES

A. How to set the Mechanism in Tape Loading / Unloading position without Cassette Tape.

To load, turn the Loading Pulley (Fig. MA-M2) Clockwise. To unload, turn the Loading Pulley counterclockwise.

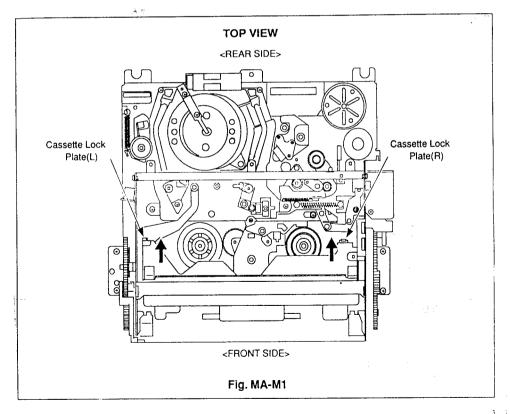
B. How to place the Cassette Holder in the down position without a Cassette Tape. Use one of the following procedures.

METHOD 1

- 1. Remove the Top Case and then connect AC Plug.
- 2. Protect the Start Sensor and End Sensor or LED Sensor by keeping them away from Electrostatic Discharge.
- 3. Push the Cassette Holder to the Deck Rear Side (in Fig. MA-M1 as shown by the arrow) while pushing the Cassette Lock Plate (L) / (R) (in Fig. MA-M1 as shown by the arrow) to release the lock. The Cassette Holder will move into the down position by itself.

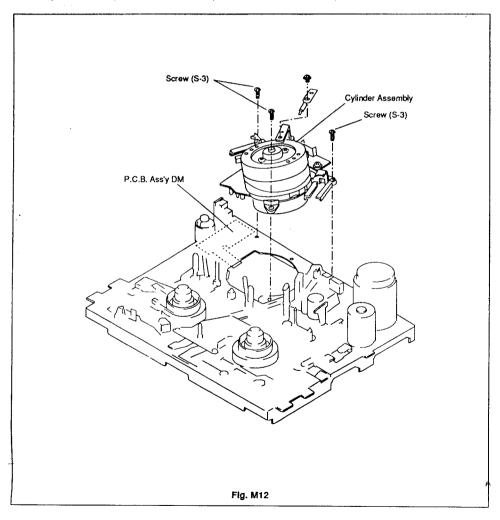
METHOD 2 (MANUAL)

- 1. Remove the Top Case and Bottom Panel. Then disconnect AC Plug.
- Turn the Middle Pulley in Fig.MA-M2 clockwise (for down position) while pushing the Cassette Lock Plate (L) / (R)
 (in Fig. MA-M1 as shown by the arrow) to release the lock. The Cassette Holder may be moved into the down
 position by turning the Middle Pulley.



3. REPLACEMENT OF CYLINDER ASSEMBLY

- 1. Disconnect the P.C.B Ass'y DM from the stator of DRUM MOTOR.
- 2. Remove 3 screws (S-3), and then take off the CYLINDER ASSEMBLY.
- 3. Replace the CYLINDER ASSEMBLY, and tighten 3 screws (S-3).
- Connect the P.C.B Ass'y DM to the CYLINDER ASSEMBLY. (Refer to Fig. M12)
 Upon completion of above procedure, confirm and adjust the following items:
- 5. Play back Switching Point. (Refer to Electrical Adjustment.)
- 6. Azimuth (Refer to Mechanical Adjustment Procedures Item 1-D).
- 7. Audio Output Level. (Refer to Mechanical Adjustment Procedures Item 1-D).
- 8. X value. (Refer to Alignment Procedure for Mechanism Item 1-E).
- 9. Envelope Waveform. (Refer to Mechanical Adjustment Procedures Item 1-F).



4.REPLACEMENT OF UPPER DRUM/LOWER DRUM

When reinstalling the Upper, Lower Drums, confirm and adjust the following items:

- · Playback switching point (Refer to Electrical Adjustment Instructions).
- · Azimuth (Refer to Mechanical Adjustment Procedures Item 1-D).
- · Audio output level (Refer to Mechanical Adjustment Procedures Item 1-D).
- · X value (Refer to Mechanical Adjustment Procedures Item 1-E).
- Envelope waveform. (Refer to Mechanical Adjustment Procedures Item 1-F).

Note:

Install the Upper Drum so that the Video Head CH-R aligns with the PG Magnet on the side of Drum Motor.

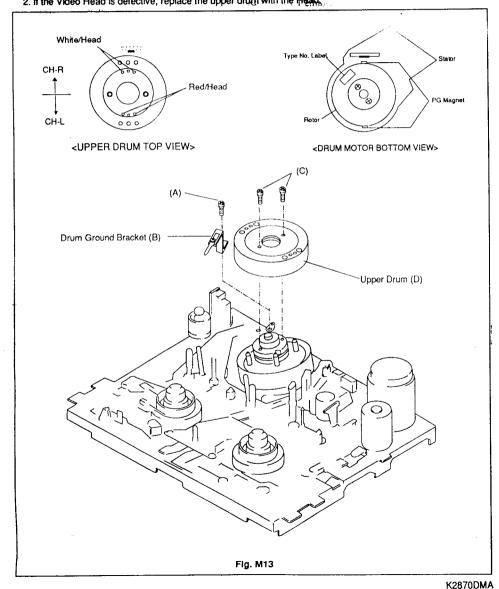
5 018

UPPER DRUM / REINSTALLATION OF UPPER, LOWER DRUMS AND ROTOR

- 1. Remove the Front Loading Unit.
- 2. Remove screw (A) and take of the Drum Ground Bracket (B). . .
- 3. Remove 2 screws (C) and take off the Upper Drum (D).

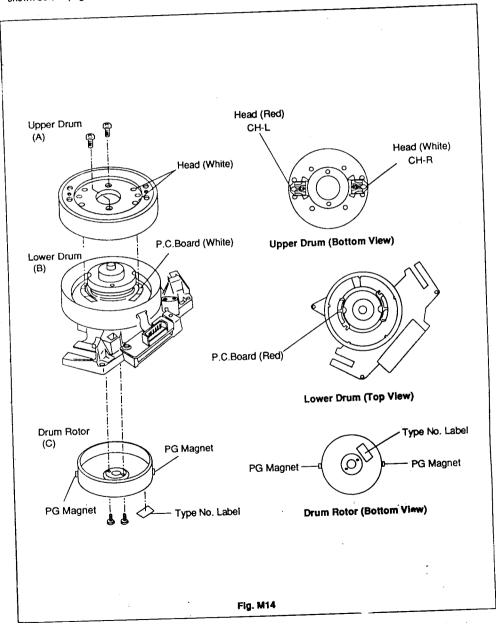
NOTE:

- 1. Use gloves and do not touch the drum surface with bare fingers.
- 2. If the Video Head is defective, replace the upper drum with the Head,



Note:

Upper Drum (A), Lower Drum (B) and Drum Rotor (C) must be assembled so that the white marks are lined up as shown below. (Fig. M14)



DISASSEMBLY / ASSEMBLY PROCEDURES OF **DECK MECHANISM**

This procedure starts with the conditions that the Cabinet parts, Cassette Up Unit and Head Amp C.B.A. have been removed. Also, all the following procedures for adjustment and parts replacement should be performed in STOP mode. When reassembling, perform the step(s) in the reverse order.

	T	· · · · · · · · · · · · · · · · · · ·		,		
}					REMOVAL	INSTALLATION
					REMOVE /	
	START	·			* UNHOOK /	
LOC.	-ING	PART		FIG.	UNLOCK /	ADJUSTMENT
NO.	NO.			NO.	RELEASE /	CONDITION
					UNPLUG /	
l					DESOLDER	
[1]	1	ARM, BACK TENSION	Т	DM1	* (P-1), (C-1)	(+) See Setting Condition in
"		The state of the s	' '	DM3	# (1 - 1), (O-1)	Fig. DM3
[2]	1	BAND, BT	T	DM1	(C 1) /K 1) +(D 0)	Fig. Divis
[2]	i '	DAILD, D7	l '		(S-1), (K-1), *(P-2)	
[0]	3	SUPPORT DAOK TEN		DM3	/0.0	
[3]	3	SUPPORT, BACK TEN-	Т	DM1	(S-2)	
<u> </u>	ļ	SION		ļ		
[4]	2, 3	SUPPLY REEL ASSEMBLY	T	DM1		(+)
[5]	5	CYLINDER UNIT	T	DM1	3(S-3), Connections	See Replacement of
						CYLINDER ASSEMBLY.
[6]	5	LOADING POST (L) UNIT	Т	DM1	(S-4) Slide to rear to	(+) See Alignment Proce-
				[remove	dure for Mechanism Item
[7]	5	LOADING POST (R) UNIT	Т	DM1	(S-5) Slide to rear to	1-A
' '		, , =			remove	1
[8]	8	ROLLER (A), PINCH	T	DM1	(S-6)	
[9]	9	HEAD BASE ASSEMBLY	T	DM1	(N-1), *(P-2)	See Confirmation of Audio
. "	_		ı.	DM4	(11 1), 4(1 2)	/ Control Head Height
[10]	10	PULLEY ASSEMBLY,	В	DM2	(C-2)	7 Control Fread Freight
1.01		MIDDLE	0	DIVIZ	DRIVE BELT	*********
[11]	10	REEL DRIVE GEAR AS-	_	5144		0 0
[[,,]	10		T	DM1	(S-7), 2(S-8)	See Setting Condition
74.03		SEMBLY		DM5		in Fig. DM5
[12]	10	GEAR, ASSEMBLY, P	T	DM5	**********	ļ i
[13]	10	GEAR ASSEMBLY, RF	T	DM5		
[14]	10,11,	ARM ASSEMBLY, T	Т	DM1	★ (P-3) :	See Setting Condition
	12	BRACKET		DM6		in Fig. DM6
[15]	10,11,	ARM ASSEMBLY, S	T	DM1	*(P-4)	
	12,13	BRACKET		DM6		
[16]	16	BRAKE, S SOFT	T	DM1	*(P-5), (C-3)	i
				DM6	, ,,,	
[17]	10	BRAKE ACTUATOR UNIT	Т	DM1	*(P-6), *(P-7), *(P-	See Setting Condition
` '	ľ			DM7	8)	Fig. DM7
[18]	10	TAKE-UP REEL ASSEM-	T	DM1		(+)
		BLY	•		i	**/
[19]	19	PULLEY, LOADING	В	DM2	BELT LOADING	
1.01		. Jaca, Londing	U	DM2 DM8	BELT, LOADING	
[20]	19	CEAR LOADING	_		(C-4)	
[20]	19	GEAR, LOADING	В	DM2	(C-5)	
1				DM8		

	1				REMOVAL	INSTALLATION
STEP/	CTADT	5	DIC		REMOVE / * UNHOOK /	
LOC.	-ING	PART	l	FIG.	UNLOCK / RELEASE /	ADJUSTMENT CONDITION
NO.	NO.			NO.	UNPLUG/	
					DESOLDER	
[21]	21	PLATE, LOADING, LEVER REINFORCE	B	DM2 DM8	2 (S-9)	
[22]	19,20	ARM, EJECT ACTUATE	B	DM2 DM8	(C-6)	
[23]	19, 21	SPOKE, REC-ACTUATE	В	DM2 DM8	*	
[24]	19,20	BRAKE, ARM ACTUATE	В	DM2 DM8		5 9 P
[25]	21	LEVER SEMI ASSEMBLY LOADING	В	DM2 DM8		
[26]	19, 21		В	DM2 DM8		(+) See Installation proce- dure for Deck Mechanism in Fig. DM2
[27]	27	PLATE, LOADING GEAR	В	DM2 DM9	(S-10), (K-2) * (P-9)	(+) See Alignment Procedure for Mechanism in Fig. DM2 See Setting Condition in Fig. DM9
[28]	28	DRUM MOTOR TM-84	В	DM2	2(S-11), 3(S-12) *DISCONECT MYLAR CABLE	See Replacement of DRUM MOTOR TM-84.
十	一个	1	个	个	\uparrow	<u> </u>
1	2	3	4	(5)	6	Ø

Note:

1: Order of steps in Procedure

When reassembling, perform the step (s) in the reverse order. These numbers are also used as the identification (location) number of parts in Figures.

2: Start No. followed by corresponding part to be removed at this stage

See example below. Example: Cassette Load Bracket Assembly can be removed without removing any other parts, but Worm Wheel Assembly can be removed only after removing Cassette Load Bracket Assembly (No. ①.)

- 3: Part to be removed or installed
- 4: Location of part

T = TOP VIEW (Fig. DM1)

B = BOTTOM VIEW (Fig. DM2)

- ⑤: Fig. No. showing Procedure or Part Location
- 6: Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or desoldered R = Retaining Ring

P = Spring N = Nut

W = Washer S = Screw

C = Cut Washer

* = Unhook, unlock, release, unplug or desolder

2 (C-2) = 2 Cut Washers (C-2)

- 7: Adjustment information for installation
 - (+): Refer to Exploded Views for Lubrication information.

1-F. CONFIRMATION / ADJUSTMENT OF ENVELOPE WAVEFORM

Purpose:

To achieve a satisfactory picture and secure precise tracking.

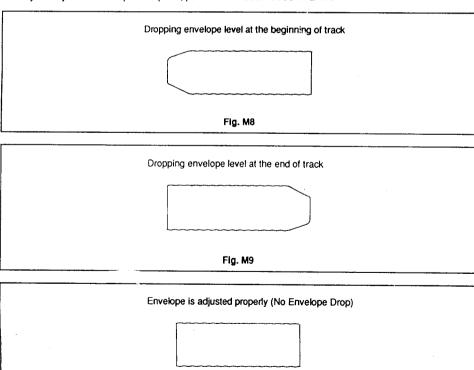
Symptom of Misadjustment:

If the envelope output is poor, much noise will appear in the picture. The tracking will lose precision and the playback picture will be distorted by any slight variation of the tracking control.

- 1. Set tracking control to the neutral position.
 - (Press the channel up and down bottons of the unit together during PLAY mode.)
- 2. Connect the oscilloscope to ENV(C-PB) on the Main PCB. Use RF-SW as a trigger.
- 3. Play back the monoscope portion of the alignment tape (F6-N) and adjust the height of guide rollers [2] and [3], watching the scope display so that the envelope becomes as flat as possible.
 If adjustment is required, turn top of guide roller with the Post Adjustment Screwdriver.
- 4. When the scope display is as shown in Fig. M8, adjust the height of [2] so that the waveform looks like Fig. M10.
- 5. When the scope display is as shown in Fig. M9, adjust the height of [3] so that the waveform looks like Fig. M10.
- When [2] and [3] are adjusted properly, there is no Envelope Drop at the beginning and end of track as shown in Fig. M10.

NOTE:

After adjustment, confirm the X VALUE by pushing the Tracking Control Up or Down Buttons alternately, to check the symmetry of the envelope. If required, perform "X VALUE ADJUSTMENT".



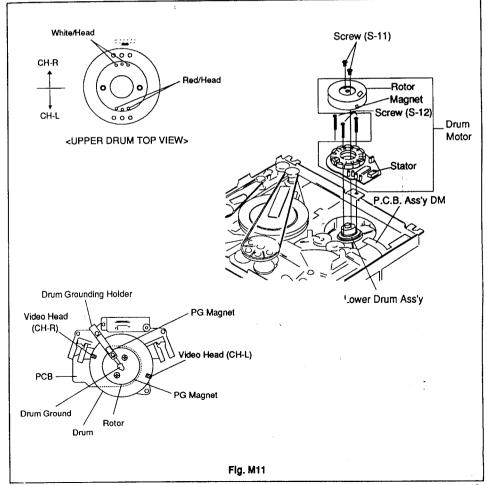
Flg. M10

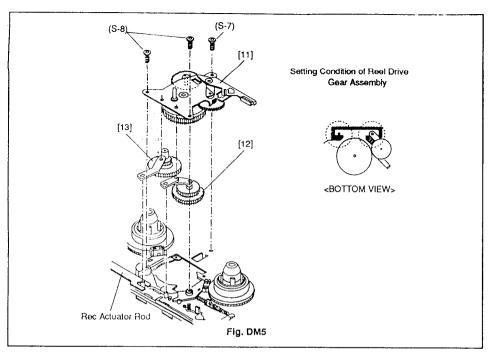
2. REPLACEMENT OF DRUM MOTOR

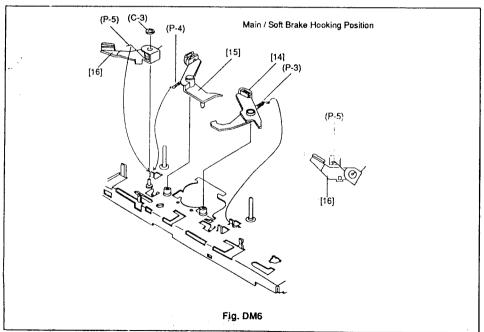
- 1. Disconnect the P.C.B Assembly DM from the stator of Drum Motor.
- 2. Remove 2 screws (S-11), and then take off the rotor of Drum Motor.
- 3. Remove 3 screws (S-12), and then take off the stator of Drum Motor.
- 4. Replace the stator of Drum Motor, and then tighten 3 screws (S-12).
- 5. Replace the rotor of Drum Motor, and then tighten 2 screws (S-11).
- Connect the P.C.B Assembly DM to the stator of Drum Motor. (Refer to Fig. M11) Upon completion of above procedure, confirm and adjust the following items.
- 7. Play back Switching Point. (Refer to Electrical Adjustment)
- 8, X value. (Refer to MECHANICAL ADJUSTMENT PROCEDURES Item 1-E)

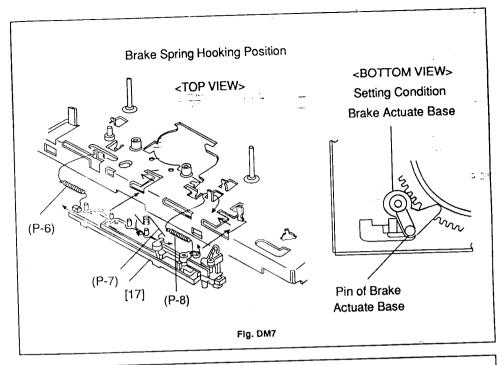
Note:

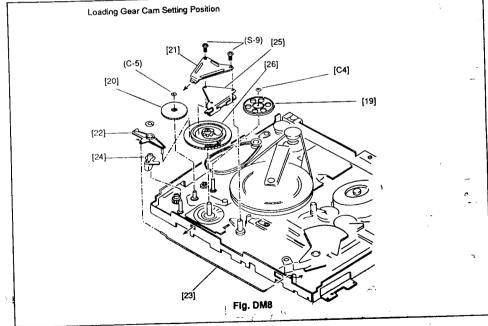
Install the rotor of Drum Motor so that the PG Magnet on the side of Drum Motor Type No. Label (TM-84) aligns with the Video Head CH-R. (Refer to Fig. M11)

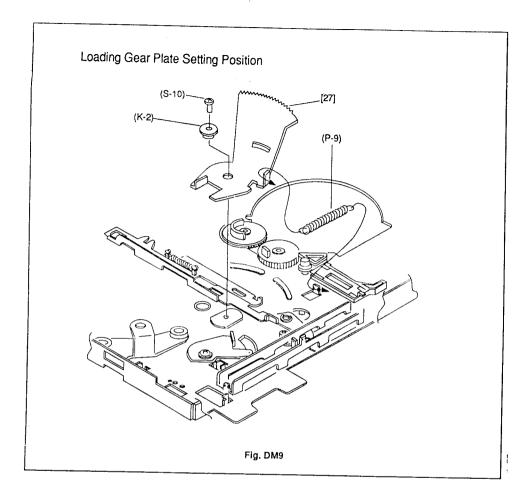






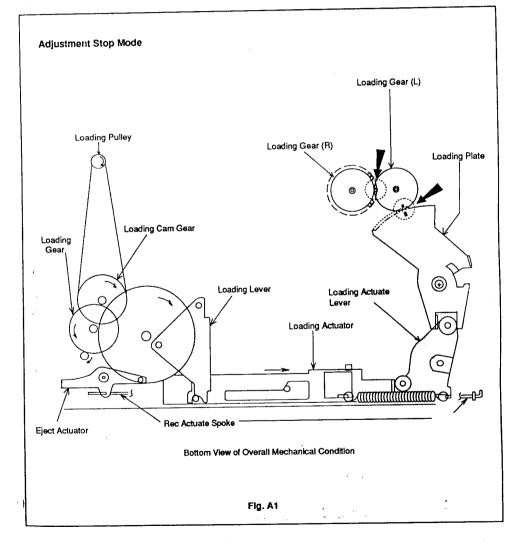






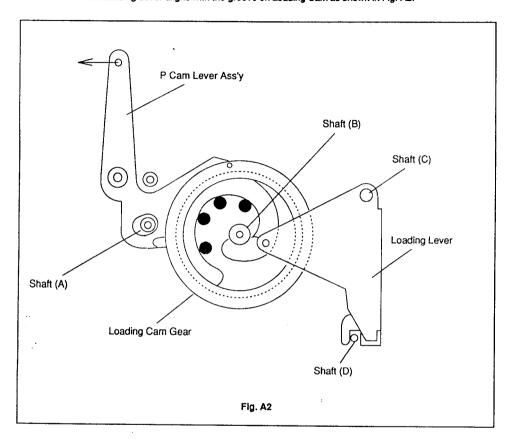
ALIGNMENT PROCEDURES OF MECHANISM

The mechanism of this model is mostly engaged to the System Control Circuit, through the mode select switch (Loading Cam). Therefore the relation between the mode select switch (Loading Cam) and the other gear determines all further mechanical movement of the mechanical parts such as levers, gears, pulley and so on. For specific removal and installation procedures, refer to the Disassembly / Assembly Procedures. If these parts are not properly aligned, the unit will be unloaded or stopped. It may result in damage to the mechanical or electrical parts. The overall mechanical condition of the bottom views is shown in Fig. A1.



ASSEMBLY PROCEDURES OF LOADING CAM AND LOADING LEVER

- 1) Push the P Cam Lever in the direction of the arrow. (In the opposite direction of Loading Cam Gear)
- 2) Turn the Cam rising portion on Loading Cam Gear in the direction of Shaft (A), then install Loading Cam Gear onto Shaft (B).
- 3) Install Loading Lever onto Shafts (C) and (D), then turn Loading Cam Gear clockwise or counterclockwise so that the Roller on the Loading Lever aligns with the groove on Loading Cam as shown in Fig. A2.



ALIGNMENT PROCEDURES OF LOADING GEAR PLATE

- 1) Projection on the Tape Loading Gear (R) aligns with the indentation on the Tape Loading Gear (L) as shown in Fig. A1.
- 2) Install the Loading Gear so that the indentation on the Loading Gear Plate aligns with the indentation on the Tape Loading Gear (L) the condition (per Item 1) above as shown in Fig. A1.

DISASSEMBLY / ASSEMBLY AND ADJUSTMENT OF **CASSETTE UP UNIT**

Notes on installation:

This procedure assumes that you have removed the Cassette Up Unit from chassis. When reassembling, perform the step(s) in the reverse order.

	 -1		$\neg \neg$	- _	REMOVAL	INSTALLATION
STEP NO.	START NO.	PART		FIG. NO.	REMOVE / *UNHOOK / UNLOCK / DESOLDER	ADJUSTMENT CONDITION
[1]	1	BRACKET ASSEMBLY, CASSETTE LOAD	R	DA1	(S-1), DESOLDER WIRES	See Setting Condition in 3th
[2]	1	WORM WHEEL ASSEM-	R	DA2	(R-1)	(+) See Alignment Procedure
[3]	2	GEAR(R)ASSEMBLY, LIFT	R	DA2	(R-2)	of Cassette Up Unit in
[4]	3	GEAR(A), SYNCHRONIZE	R	DA2	(R-3)	Fig. MA15-1 and Fig. DA4
[5]	5	LEVER, LIFT	L	DA3	(P-1),(L-1)	See Setting Condition in Fig. DA3
101	5	GEAR(L) ASSEMBLY, LIFT	T	DA6	(R-4)	See Alignment Procedure
[6] [7]	6	GEAR(A), SYNCHRONIZE	L	DA6	(R-5)	of Cassette Up Unit in Fig. MA15-2 and Fig. DA6
个	个	<u> </u>	1		1	\uparrow
1	2	3	4	5	6	⑦

Note:

1): Order of steps in Procedure

When reassembling, perform the step (s) in the reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

②: Start No. followed by corresponding part to be removed at this stage

See example below.

Example: Cassette Load Bracket Assembly can be removed without removing any other parts, but -Worm Wheel Assembly can be removed only after removing Cassette Load Bracket Assembly

(No. 1).)

- 3: Part to be removed or installed
- 4: Location of part

R = Right

L = Left

- (5): Fig. No. showing Procedure or Part Location
- 6: Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or desoldered

W = Washer P = Spring

C = Cut Washer

R = Retaining Ring

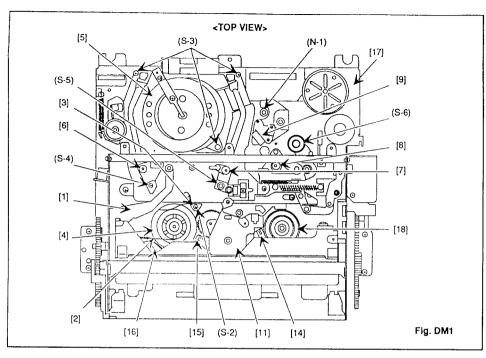
N = Nut

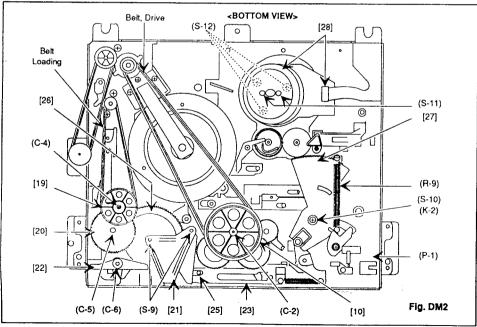
S = Screw

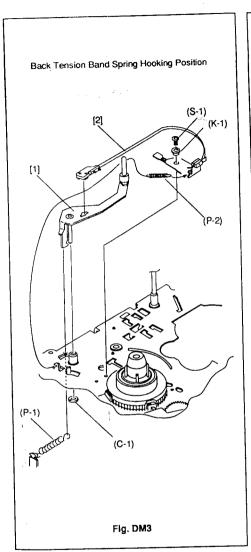
* = Unhook, unlock, release, unplug or desolder

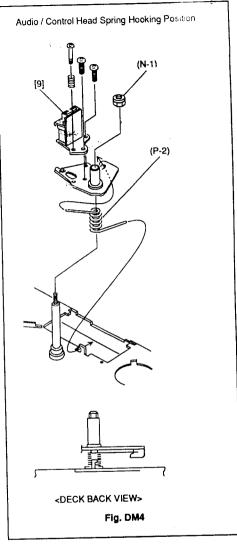
2 (C-2) = 2 Cut Washers (C-2)

- 7: Adjustment information for installation
 - (+): Refer to Exploded Views for Lubrication information.





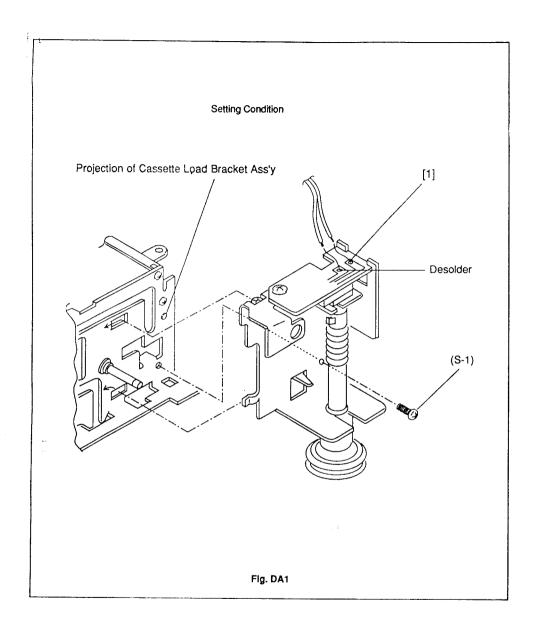


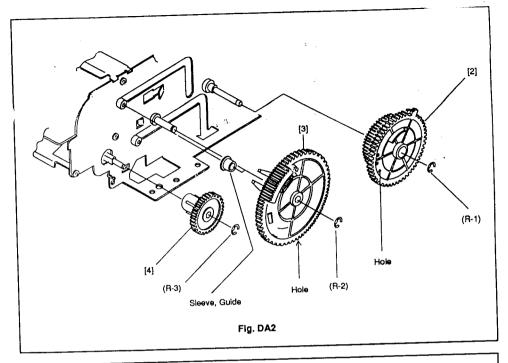


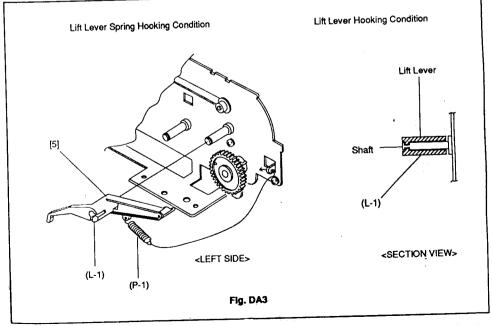
CONFIRMATION AND ADJUSTMENT

- PLAYBACK SWITCHING POINT
- X VALUE
- ENVELOPE WAVEFORM
- AUDIO OUTPUT LEVEL
- AZIMUTH
- TAPE TRANSPORTATION

Install the Gear Holder Ass'y so that the pin of Gear Holder Ass'y meets with the hole on the Return Arm.

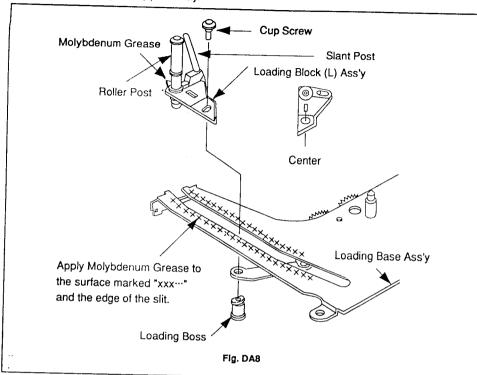






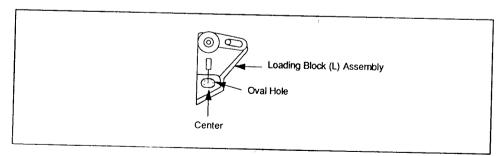
LOADING BLOCK (L) ASSEMBLY REMOVAL

- 1) Remove the Cup screw.
- 2) Then remove Loading Block (L) Assembly.



Note:

Do not stain Roller Post and Slant Post with grease.

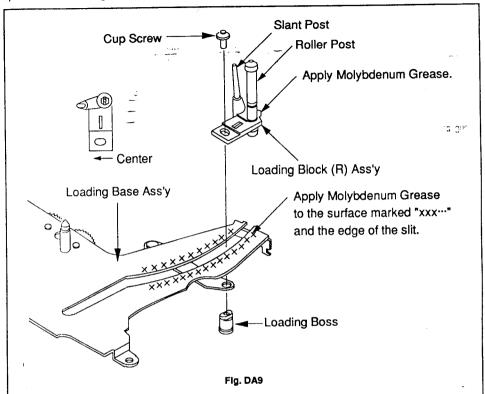


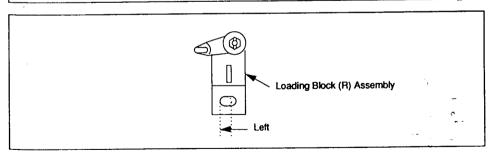
Note:

When reassembling, position the loading boss in the center of the Oval Hole of Loading Block (L) Ass'y.

LOADING BLOCK (R) ASSEMBLY REMOVAL

- 1) Remove the cup screw.
- 2) Then remove Loading Block (R) Assembly.





Note:

Do not stain Roller Post and Slant Post with grease.

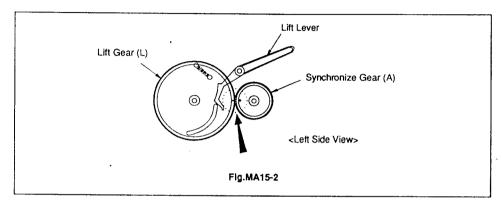
Note:

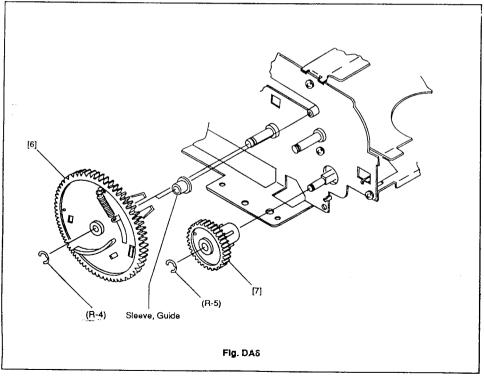
When reassembling, position the Loading boss to the extreme left end of the Oval Hole of the Loading Block (R) Assembly.

LIFT GEAR (L) ASSEMBLY

Assembly Procedure of Lift Gear (L) Assembly and Synchronize Gear.

- 1. Pull the Cassette Holder Assembly toward the front until it stops.
- 2. Install the Lift Gear (L) Assembly so that the indentation of the Lift Gear (L) Assembly aligns with the projection on the Synchronize Gear.



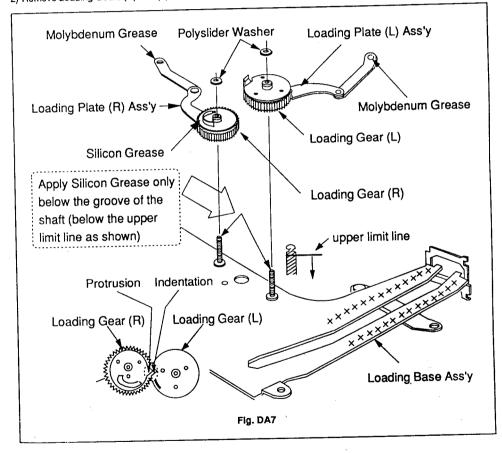


ALIGNMENT PROCEDURES OF LOADING GEAR PLATE

- 1) Align the protrusion of the Loading Gear (R) with the indentation of the Loading Gear (L) as shown in Fig. A1 in "ALIGNMENT PROCEDURE OF MECHANISM".
- 2) Install the Loading Gears (R) and (L) so that the indentation of the Loading Plate aligns with the indentation of the Loading Gear (L) with Item 1 condition, as shown in Fig. A1 in "ALIGNMENT PROCEDURE OF MECHANISM".

LOADING PLATE REMOVAL

- 1) Remove 2 Polyslider washers.
- 2) Remove Loading Gears (R) and (L), then Loading Plates (R) and (L) Assemblies can be removed.



Note:

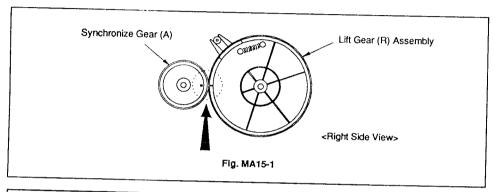
When reassembling, fit the protrusion of the Loading Gear (R) with the indentation of the Loading Gear (L) as

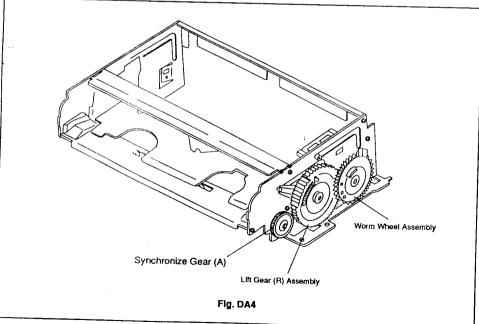
When reassembling, apply the Molybdenum Grease to the sliding surfaces marked "xxx..." shown in Fig. DA7.

ASSEMBLY PROCEDURE OF CASSETTE UP UNIT

Assembly Procedures of Synchronize Gear, Lift Gear (R) Assembly and Friction Gear Assembly

- 1. Pull the Cassette Holder Assembly toward the front until it stops.
- 2. Install the Lift Gear (R) Assembly so that the projection on the Lift Gear (R) Assembly aligns with the projection on the Synchronize Gear.
- Install the Friction Gear Assembly so that the center hole of Friction Gear Assembly aligns with the hole of Lift Gear (R) Assembly as shown in Fig. DA5.

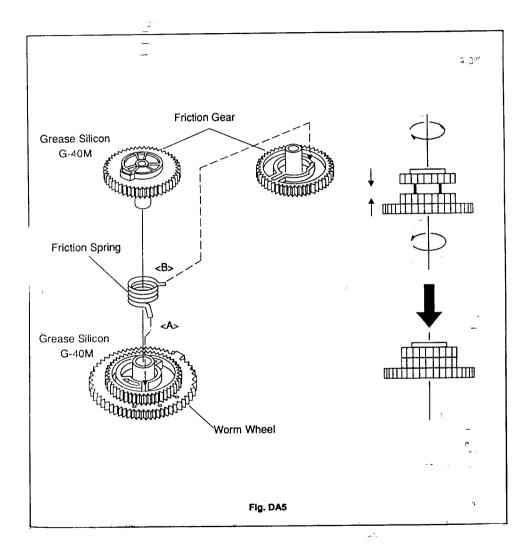




WORM WHEEL ASSEMBLY

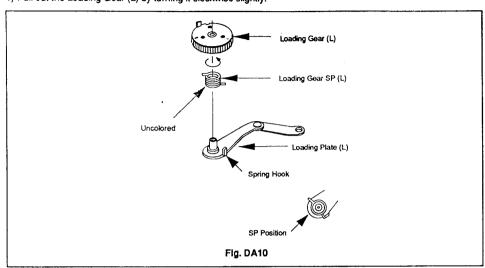
When Assembling Worm Wheel Assembly, Refer to Fig. DA5 below.

- 1. Put the Friction Spring <A> portion into the groove (arrowed portion) on Worm Wheel.
- 2. Install the Friction Gear and place the Friction Spring portion into the groove (arrowed portion) on Friction Gear
- 3. Continue inserting the Friction Gear to the Worm Wheel while twisting clockwise.



LOADING GEAR (L) REMOVAL

1) Pull out the Loading Gear (L) by turning it clockwise slightly.

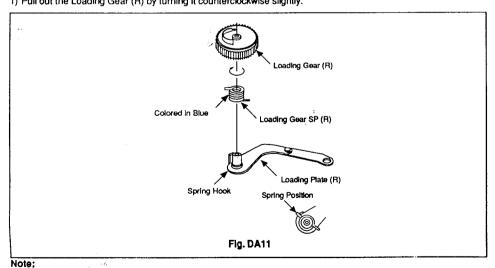


Note:

Do not mix Loading Gear SP (L) (Uncolored) with Loading Gear SP (R) (Colored in Blue). Do not deform the Loading Plate (L).

LOADING GEAR (R) REMOVAL

1) Pull out the Loading Gear (R) by turning it counterclockwise slightly.



Do not deform the Loading Plate (R).

Do not mix Loading Gear SP (L) (Uncolored) with Loading Gear SP (R) (Colored in Blue).

ELECTRICAL ADJUSTMENT INSTRUCTIONS [TV]

General Note: "C.B.A." is abbreviation for "Printed Circuit Board Assembly".

NOTE:

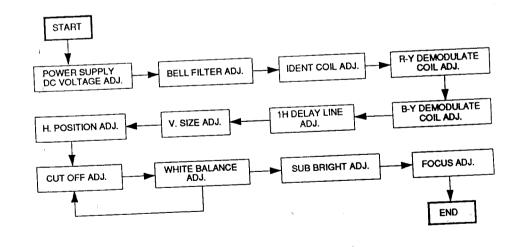
Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

TEST EQUIPMENT REQUIRED

- 1. Oscilloscope: Dual Trace with 10:1 probe
- 2. Monoscope
- 3. PAL and SECAM Pattern Generator
- 4. DC Volt Meter

HOW TO SET UP THE ADJUSTMENT MODE

Set Bright, Color, Contrast and Tint to center.



5. B-Y DEMODULATE COIL ADJUSTMENT (FOR SECAM)

Purpose

To adjust the level of B-Y color difference signal.

Symptom of Misadjustment:

The R, G and B will be unbalanced.

Test Point	Adjustment Point	Mode	Innut
TP3		Wicde	Input
TP1 (GND)	L301		SECAM Black Raster
Tape	, M. EQ.		Spec.
	SECAM Pattern Generator		- Opco.
	Oscil loscope	See Refe	erence Notes below.
	(20mV/div, 5ms/div - AC)		
	Connections of M. E	Q.	
TP3 ○<	Oscilloscope CH+ Ext. Trig.	Ext. Tr	D203
	Figure		
·	©	• • • • • • • • • • • • • • • • • • •	

Reference Notes:

TP1, TP3, L301: TV MAIN C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input the SECAM Black Raster.
- 3. Adjust L301 with core driver so that ① becomes center of ② as shown in the above table.

6. 1 H DELAY LINE ADJUSTMENT

Purpose:

To get correct 1H delay line when the PAL signal is entered.

Symptom of Misadjustment:

The Anti-PAL signal part is colored when the Philips pattern is entered.

Each scanning line is colored on the color bar.

Test Point	Adjustment Point	Mode	Input
IC301 41 pin TP1 (GND)	£303, VR301		Philips Pattern
Tape	M. EQ.		Spec.
	Pattern Generator Oscilloscope	See Ref	erence Notes below.
	Connections o	f M. EQ.	15 Opr
IC 3010 777 TP1	Oscilloscope Ext. O CH+ Trig.		. Trig. D203 7 TP1
	Figure		
Anti-F	AL Signal	Anti-PA	al Signal

Reference Notes:

IC301, TP1, L303, VR301: TV MAIN C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input the Philips Pattern.
- Adjust L303 and VR301 so that the amplitude at Anti-PAL signal part becomes minimam (no color) and the waveform at the color bar part is not seen in double ("Venetian Blind" does not appear at the color bar signal part).

1. POWER SUPPLY DC VOLTAGE ADJUSTMENT

Purpose:

To get correct voltage.

Symptom of MIsadjustment:

If voltage is incorrect, picture is dark, or VCR is not operated correctly.

Test Point	Adjustment Point	Mode	Input
D603 (Cathode) R602 (at C603)	VR602 VR601	POWER OFF POWER ON	
Tape	M. EQ.	Sp	ec.
	DC Volt Meter	16.5± 112.5	0.3V ±0.5V
	Connectio	ns of M. EQ.	
D603	DC Volt Meter	D614 C603 Fig. 2	DC Volt Meter

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Reference Notes:

D603, R602, VR601, VR602: TV MAIN C.B.A.

- 1. Connect the equipment as shown in Fig. 1.
- 2. Adjust VR602 for reading 16.5±0.3V on the DC Volt Meter.
- 3. Connect the equipment as shown in Fig. 2.
- 4. Adjust VR601 for reading 112.5±0.5V on the DC Volt Meter.

Caution!

To avoid any hazards and damage of unit, be sure to do below;

- 1). Disconnect all cables from the VCR unit on the TV circuit.
- 2). Connect both terminal of C608 by 390Ω 5W resistor as VCR load resistance.
- 3). To inactivate F.B.T., ground the base of Q201.
- 4). Connect both terminal of C603 by 390 Ω 140W resistor as F.B.T. load resistance.

2. BELL FILTER ADJUSTMENT (FOR SECAM)

Purpose:

To adjust the center frequency of SECAM bell filter.

Symptom of Misadjustment:

The color will be reversed when the SECAM signal is entered.

	Adjustment Point	Mode	Input
Test Point			SECAM Color Bar
TP5	<u>เวี</u> 05	1	
TP1 (GND)	M. EQ.		Spec.
Tape	SECAM Pattern Generator		AL ALA BAILANA
	Oscitloscope	See Refe	erence Notes below.
	(5mV/div. 10ms/div -AC)	<u> </u>	
	Connections of M.	EQ	5.10
TP5 ○<	Oscilloscope Ext. Trig.	Ext. Trig.	D203
	Figure		

Reference Notes:

TP1, TP5, L305: TV MAIN C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input the SECAM Color Bar.
- 3. Adjust L305 with core driver to flat wave form.

13. IDENT COIL ADJUSTMENT (FOR SECAM)

Purpose:

To adjust the peak value of SECAM IDENT signal.

Symptom of Misadjustment:

The display is not colored when the SECAM signal is entered.

Test Point	Adjustment Point	Mode	Input
TP2 TP1 (GND)	L308		SECAM Color Bar
Tape	M. EQ.		Spec.
	SECAM Pattern Generator Oscilloscope (0.2V/div, 5ms/div -DC)	See Ref	erence Notes below.
	Connections of M. E	Q.	
TP2	0	Oscilloscope	
	777 TP1		

Reference Notes:

TP1, TP2, L308: TV MAIN C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input the SECAM Color Bar.
- 3. Adjust L308 with core driver to peak DC voltage.

4. R-Y DEMODULATE COIL ADJUSTMENT (FOR SECAM)

Purpose

To adjust the level of R-Y color difference signal.

Symptom of Misadjustment:

The R, G and B will be unbalanced.

Test Point	Adjustment Point	Mode	Input
TP4 TP1 (GND)	L302		SECAM Black Raster
Tape	M. EQ.		Spec.
	SECAM Pattern Generator Oscilloscope (20mV/div, 5MS/div - AC)		erence Notes below.
	Connections of M. I	EQ	
TP4 ○ 	Oscilloscope CH+ Ext. Trig.	Ext. T	rig. D203 TP1
	Figure		
	② ————————————————————————————————————		

Reference Notes:

TP1, TP4, L302: TV MAIN C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input the SECAM Black Raster.
- 3. Adjust L302 with core driver so that ① becomes center of ② as shown in the above table.

9. CUT OFF ADJUSTMENT

Purpose:

To adjust the beam current of R, G, B and screen voltage.

Symptom of Misadjustment:

White color may be reddigh, greenish or bluish.

When the screen voltage is too high, the scanning line is appeared on the screen,

Test Point	Adjustment Point	Mode	
Screen	VR701, VR702, VR703.		Input White Raster
Tape	Screen-VR (F.B.T.)		(APL 100%)
	M. EQ.		Spec.
	Pattern Generator	See Reference Notes belov	
	Figure Figure	230 1.0.0.	CHOC NOTES DEIOW.

Reference Notes:

VR701, VR702, VR703, VR704, VR705: TV CRT C.B.A.

VR303, SW301: TV MAIN C.B.A.

- Screen-VR: TV MAIN C.B.A. (F.B.T.) 1. Operate the unit more than 20 minutes.
- 2. Degauss the CRT using Degaussing Coil.
- 3. Input the white Raster (APL 100%).
- 4. Turn the Screen-VR fully counterclockwise.
- 5. Set VR701(Blue), VR702(Green), VR703(Red), VR704(R. Drive), VR705(B. Drive) and VR303(Sub Bright) to
- 6. Set the SW301(Service SW) to ON.
- 7. Slowly turn the Screen-VR to the point where horizontal line just illuminates.
- 8. Adjust VR701(Blue), VR702(Green) and VR703(Red) so that horizontal line becomes pure white.
- 9. Turn off the SW301(Service SW).

Note:

Confirm that White Balance Adj. is correct after this adjustment, and attempt White Balance Adj. if needed.

10. WHITE BALANCE ADJUSTMENT

Purpose:

To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment:

White becomes bluish or reddish.

Test Point	Adjustment Point	Mode	Input
Screen	VR704, VR705		Color Bar signal with 100% White Level
Tape	M. EQ.	Spec.	
	Pattern Generator	See Reference Notes below.	

Reference Notes:

VR704, VR705: TV CRT C.B.A.

- 1. Operate the unit more than 20 minutes.
- 2. Face the unit to east. Degauss the CRT using Degaussing Coil.
- 3. Input the Color Bar signal.
- 4. Adjust VR704(R. DRIVE) and VR705(B. DRIVE) so that white area is shown pure white.

Note:

Confirm that Cut Off Adj. Is correct after this adjustment, and attempt Cut Off Adj. If needed.

11. SUB BRIGHT ADJUSTMENT

Purpose:

To get proper brightness.

Symptom of Misadjustment:

Proper brightness cannot be obtained by adjusting the Bright Control.

Test Point	Adjustment Point	Mode	Input
Screen	VR303	Gray Scale Spec.	
Tape	M. EQ.		
	Pattern Generator	See Refer	ence Notes below.
• /	Figure		
- works			
e. = *####	This point starts	to alitter	
4	This point starts	lo gilloi	
wi	nite ———	В	lack

Reference Notes:

VR303: TV MAIN C.B.A.

- 1. Operate the unit more than 20 minutes.
- 2. Input the 8-step Gray scale.
- 3. Adjust VR303 to a point where the one level higher than the black-level starts flashing. (2nd level from the right)

12. FOCUS ADJUSTMENT

Purpose:

To get correct focus.

Symptom of Misadjustment:

Blurred image is shown on the display.

		Mode	Input
Test Point	Adjustment Point		Monoscope Pattern
Screen	Focus-VR (F.B.T.)		Spec.
Tape	M. EQ.		
	Monoscope		Clear picture
	Figure		

Reference Note:

Focus-VR: TV MAIN C.B.A. (F.B.T.)

- 1. Operate the unit more than 20 minutes.
- 2. Input the Monoscopic Pattern.
- 3. Adjust Focus-VR to be obtained clear picture.

7. V. SIZE ADJUSTMENT

Purpose:

To get correct vertical height of screen image.

Symptom of Misadjustment:

Vertical height of screen image may not be properly displayed.

Test Point	Adjustment Point	Mode	Input
Screen	VR302		
Tape	M. EQ.		Monoscope Pattern
	Monoscope		Spec.
	Figur		90±5%
1			

Reference Note:

VR302: TV MAIN C.B.A.

- 1. Operate the unit more than 20 minutes.
- 2. Input the Monoscopic Pattern.
- 3. Adjust VR302 so that the monoscopic pattern will be 90±5% of display size and the circle is round.

8. H. POSITION ADJUSTMENT

Purpose:

To get correct horizontal position of screen image.

Symptom of Misadjustment:

Horizontal position of screen image may not be properly displayed.

Test Point	Adjustment Point	Mode	Input
Screen	VR304 (R342)		Monoscope Patteri
Tape	M. EQ.		Spec.
	Monoscope	See Refere	nce Notes below.
	Figur	re	
` .		W	4 · · · · · · · · · · · · · · · · · · ·

Reference Note:

VR304: TV MAIN C.B.A.

- 1. Operate the unit more than 20 minutes.
- 2. Input the Monoscopic Pattern.
- 3. Adjust VR304 so that the right and left of monoscopic pattern will be equal.

ELECTRICAL ADJUSTMENT INSTRUCTIONS [VCR]

General Note: "C.B.A." is abbreviatiom for "Printed Circuit Board Assembly".

NOTE:

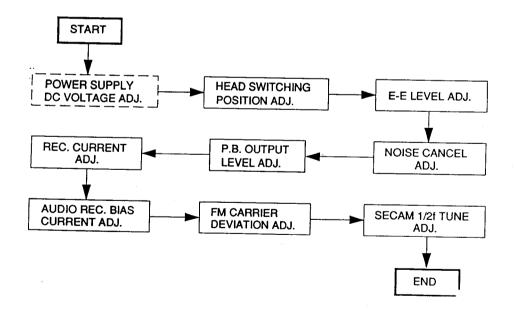
Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

TEST EQUIPMENT REQUIRED

- 1. Oscilloscope: Dual-trace with 10:1 probe, V-Range: 0.001~50v/Div.,F-Range: AC~DC-20MHz
- 2. PAL/SECAM Pattern Generator (Color bar with 100% white)
- 3. AC Voltmeter (RMS)
- 4. Alignment Tape (F6-A, Blank Tape)
- 5. Spectrum Analyzer

HOW TO SET UP THE ADJUSTMENT MODE

If not alterdy done, execute Power Supply DC Voltage Adj. (P. 16-2) first.



1. HEAD SWITCHING POSITION ADJUSTMENT

Note: Before attempting the mechanical adjustment, must be completed this adjustment. Purpose:

Determine the Head Switching Point during Playback.

Symptom of Misadjustment:

May cause Head Switching Noise or Vertical Jitter in the picture.

Test Point	Adj. Point	Mode	Input
TP7502 (V-OUT) TP3503 (RF-SW) GND	VR2001 (HEAD SWITCHING)	PLAY	_
Tape	M. EQ.		ec.
F6-A	Oscilloscope		12.7μs±60μs)
	Connection	ns of M. EQ.	
			Oscilloscope
MAIN C.B.A.	TP7502		CH1 Trig.
H-AMP/AUDIO C.B./	A. TP3503	-()	<u>-</u> ο
	Fi	gure	
	EXT. Synchronize	e Trigger Point	
CH1	→ 1.0 H k— 6.5 H	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
CH2 -	→ Switch	ning pulse	

Reference Notes:

TP3503: HEAD AMP/AUDIO C.B.A. TP7502, VR2001: VCR MAIN C.B.A.

- 1. Connect the equipment as shown in the above table.
- Set tracking control to the neutral position.

(Press the channel up and down bottons of the unit together during PLAY mode.)

3. Playback test tape and adjust VR2001 so that the V-sync front edge of CH1 video output waveform is delayed 6.5H(412.7µs) from the roing of CH2 Head Switching pulse waveform.

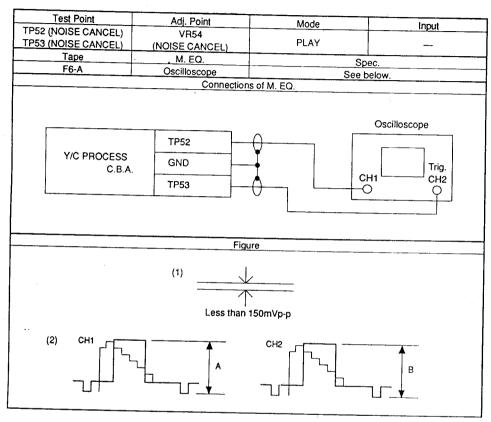
4. NOISE CANCEL ADJUSTMENT

Purpose:

Improve the overall S/N Ratio, especially in the Low Frequency Component.

Symptom of Misadjustment:

The S/N Ratio will be lower.



Reference Notes:

TP52, TP53, VR54: Y/C PROCESS C.B.A. Adjust the Noise Cancel for choice (1) or (2).

- (1): 1. Connect the equipment as shown in the above table.
 - 2. Set the input trigger mode to CH2 and set trigger slope to (+).
 - 3. Invert CH2 signal (TP53) and select ADD mode.
 - 4. Playback the tape and adjust VR54 so that the level becomes minimum.
- (2): 1. Connect the equipment as shown in the above table.
 - 2. Set the input trigger mode to CH2 and set tring modes on (a)

5. REC. CHROMA ADJUSTMENT

Purpose:

Set the optimum Record Chroma Level.

Symptom of Misadjustment:

If the Record Chroma Level is too high, beats may cause on the picture, and in case of too low, the Chroma S/N Ratio will be lower.

Test Point	Ac	j. Point	Mode	Input
TP3502 (C-REC) TP3503 (RF-SW))	01 (C-REC)	REC	Red Raster
Tape		и. EQ	Spec.	
Blank Tape		n Generator cilloscope	55±5mVp-p	
		Connectio	ns of M. EQ.	
	RCA JACK H-AMP/AUDIO C.B.A.	Video In TP3502 GND TP3503	Pattern Generator Out O	Ext. Trig. O
		F	igure	
.—				55±5mVp-p

Reference Notes:

TP3502, TP3503, VR3501: HEAD AMP/AUDIO C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input Red only signal to Video Input.
- 3. Adjust VR3501 so that the Chroma Level becomes 55±5mVp-p.

6. AUDIO REC. BIAS CURRENT ADJUSTMENT

Purpose:

Set Optimum Record Audio Bias Level.

Symptom of Misadiustment:

If Audio Bias Level is too high, the Frequency Response deteriorates. If the level is too low, sound distortion may cause.

Test Point	Adj. Point	Mode	Input
TP4001 (BIAS+) TP4002 (BIAS-) GND	VR4001 (BIAS)	REC	_
Tape	M. EQ.		Spec.
Blank Tape	AC Voltmeter or Oscilloscope	22.0	OmV RMS
1	Connections	of M. EQ.	
			AC Voltmeter (RMS
H-AMP/AUDIO C.B.A.	TP4001 TP4002		AC Voltmeter (HMS

* Do not enter input Signal.

Reference Notes:

TP4001, TP4002, VR4001: HEAD AMP/AUDIO C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Insert a blank tape and set the VCR to REC (SP) mode. (Do not set to PAUSE. In PAUSE mode, the bias oscillation is stopped.)
- 3. Adjust VR4001 so that the voltage becomes 22.0mV.

7. FM CARRIER DEVIATION ADJUSTMENT

purpose:

To align FM carrier deviation.

Symptom of Misadjustment:

If the deviation is not correct, abnormal contrast of light and shadow on the picture may be seen.

If the carrier deviation is not correct, Beats appear on the picture.

	Adj. Point	Mode	Input
Test Point	VR51 (CARR)	REC	White Raster
TP55 (CRR/DEV)	VR52 (DEVIATION)		(APL 100%)
TP3503 (RF-SW)	M. EQ.		Spec.
Tape Blank Tape	Pattern Generator Spectrum Analyzer Oscilloscope	100% White p	3.8MHz±50KHz eak 4.8MHz±50KHz
	Connection	ns of M. EQ.	
	Pattern Gener		Spectrum Analyzer
RCA JACK			
Y/C PROCESS	TP55	In Later of	ln O
H-AMP/AUDIO C.B.A.	GND TP3503	O Ext.Trig.Q] - [
	F	igure	
	3.8MHz Sync-tip	1MHz 4.8MH: 100%	z White-peak

Reference Notes:

TP55, VR51, VR52: Y/C PROCESS C.B.A.

TP3503: HEAD AMP/AUDIO C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input White 100% only signal to Video Input.
- 3. Adjust Sync-tip to 3.8MHz±50KHz by VR51, White-peak for 4.8MHz±50KHz by VR52.

2. E-E LEVEL ADJUSTMENT

Purpose:

Set the optimum E-E Luminance Level.

Symptom of Misadjustment:

If the E-E Level is too high, TV may overload. If the Level is too low, the S/N Ratio deteriorates.

Test Point	Adj. Point	Mode	Mode Input		
TP7502 (V-OUT)	VR55 (E-E)	E-E	E-E Color Bar with 100% White		
Tape	M, EQ.		Spec.		
	Pattern Generator Oscilloscope		1Vp-p ±0.05V		
	Connec	tions of M. EQ.			
i			1		
		Pattern Generator			
		Out 🔾			
÷			Oscilloscope		
RCA JAC	K Video In	7			
- Hortoria		-			
MAIN C.E			In L		
	GND		─		
		Figure			
	100% White	9			
			<u>†</u>		
			1Vp-p±0.05V		
7					
		Ш			
			<u> </u>		

Reference Notes:

..TP7502: VCR MAIN C.B.A.

VR55 : Y/C PROCESS C.B.A.

1. Connect the equipment as shown in the above table.

2. Input Color Bar signal with 100% White to Video Input.

3. Adjust VR55 so that the video level becomes 1Vp-p ±0.05V. (Connected to TV).

3. P.B. OUTPUT LEVEL ADJUSTMENT

Purpose:

Set the Optimum Playback Luminance Level.

If the P.B. Output Level is too high, TV may overload. If the Level is too low, the S/N Ratio deteriorates. Symptom of Misadjustment:

	A III Delint	Mode	Input
Test Point	Adj. Point	PLAY	<u> </u>
TP7502 (V-OUT)	VR53 (PB LEVEL)	Sp	oec
Tape	M. EQ.	1\/n n	±0.05V
F6-A	Pattern Generator	1 v p-1	10.034
	Oscilloscope	s of M. EQ.	
RCA JA MAIN C	TP7502	Pattern Generator Out O Os	cilloscope
	F	igure	
	100% White		
1		_	/p-p±0.05V

Reference Notes:

TP7502: VCR MAIN C.B.A. VR53: Y/C PROCESS C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Playback test tape and adjust VR53 so that the video level becomes 1Vp-p±0.05V. (Connected to TV)

8. SECAM 1/2f TUNE ADJUSTMENT

Purpose:

To detect SECAM Signal Correctly.

Symptom of Misadjustment:

Black and White Picture only appears if SECAM Signal is Low Level.

Test Point		Adj. Point	Mo	ode	Input
TP181-(SECAM) TP3503 (RF-SW)	L18	B1 (SECAM)	RI	EC	SECAM Color Bar
Tape	,	M. EQ.		Sp	ec.
Blank Tape		ern Generator		See b	pelow.
	<u> O:</u>	scilloscope Cònnecti	ons of M. EQ.	<u> </u>	
RCA JAC Y/C PRO H-AMP/A	CESS C.B.A.	Video In TP181 GND TP3503	Pattern Gener	Osc	Ext.Trig.O
		F	igure		
		1 fie		Maximur (0.8~1.0	

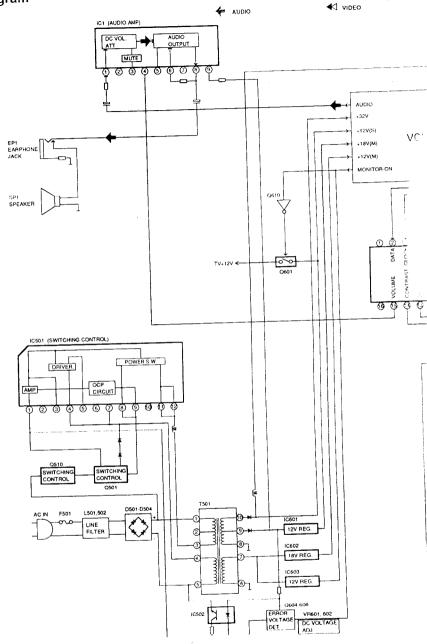
Reference Notes:

TP181, L181: Y/C PROCESS C.B.A.

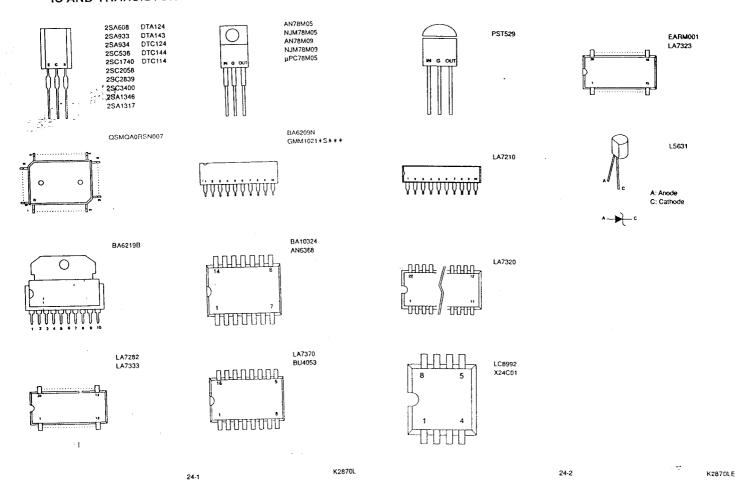
TP3503: HEAD AMP C.B.A.

- 1. Connect the equipment as shown in the above table.
- 2. Input SECAM color bar signal to Video Input.
- 3. Adjust L181 so that output level becoms maximum.

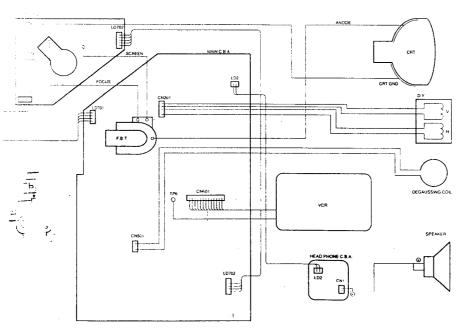
"I/CRT Block Diagram



IC AND TRANSISTOR LEAD IDENTIFICATIONS

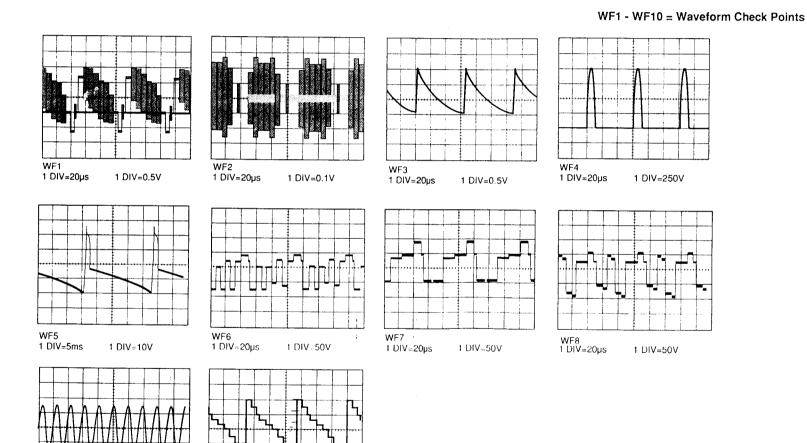


WIRING DIAGRAM [TV]



22-1

WAVEFORM PHOTOGRAPHS [TV]



.

WF9 1 DIV=1ms

1 DIV=2V

1 DIV=20µs

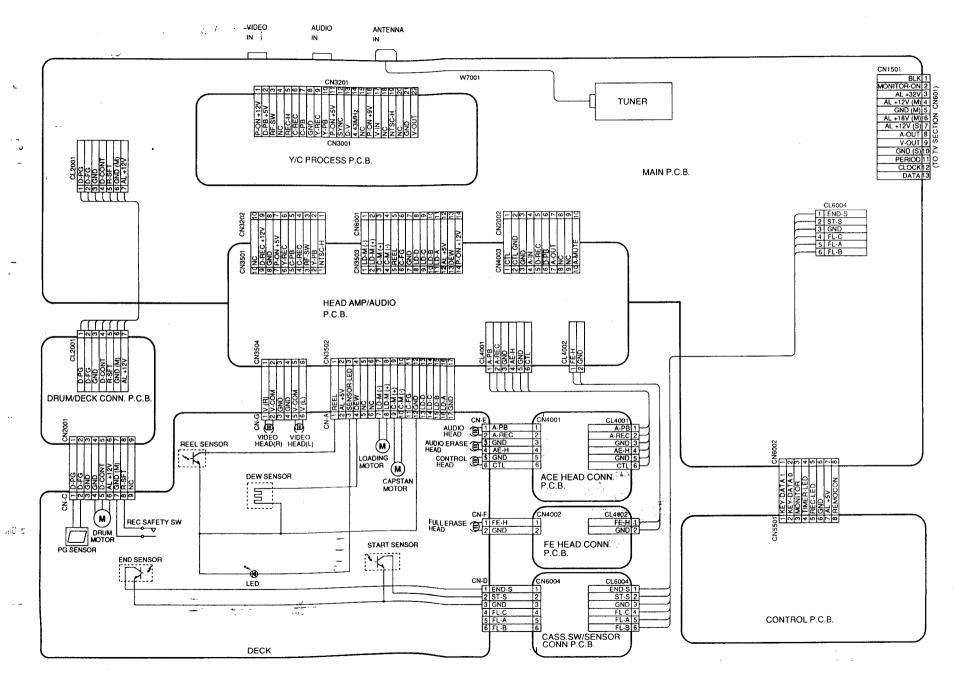
1 DIV=200mV

WAVEFORM NOTES:

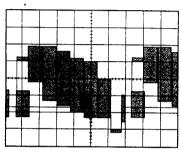
★ Operation:Input PAL color bar signal Brightness:Center Contrast:Center Color:Center

Tint:Center

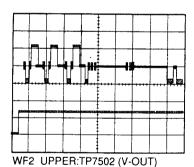
WIRING DIAGRAM [VCR]

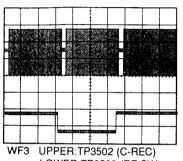


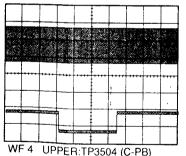
WAVEFORM PHOTOGRAPHS [VCR]



WF1 TP7502 (V-OUT) 1 DIV=10µs 1 DIV=0.2V

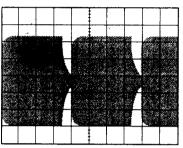






WF 4 UPPER:TP3504 (C-PB)
LOWER:TP3503 (RF-SW)
UPPER :1 DIV=5ms 1 DIV=0.1V
LOWER :1 DIV=5ms 1 DIV=5.0V

WF1 - WF5 = Waveform Check Points



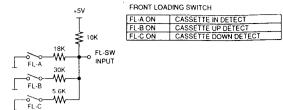
WF 5 TP181 (SECAM) 1 DIV=5ms 1 DIV=0.2V

WAVEFORM NOTES:
★ Operation:Input PAL color bar signal Brightness:Center Contrast:Center Color:Center Tint:Center

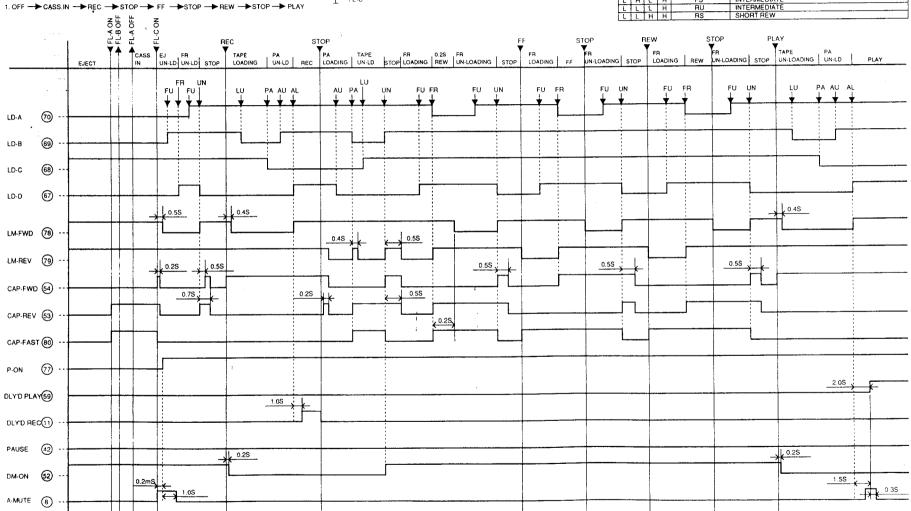
SYSTEM CONTROL TIMING CHART

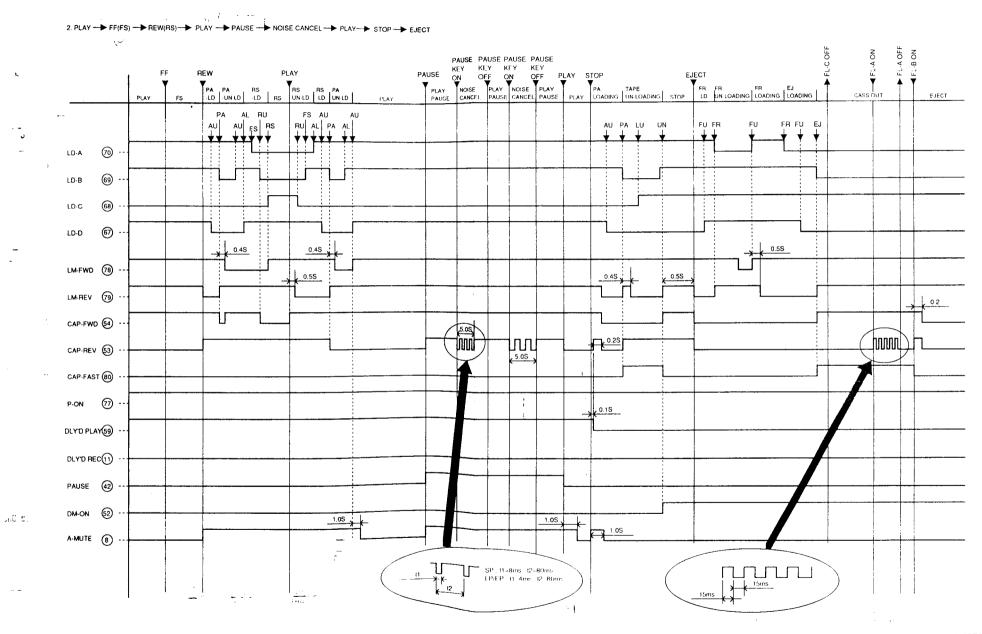
Chart 1

POSITION	FL-A	FL-B	FL-C	FL-SW INPUT VOLTAGE	MARK
CASSETTE LOAD	OFF	OFF	OFF	4.5V ~ 5.0V	a
EJECT (CASSETTE OUT)	OFF	ON	OFF	3.5V ~ 3.9V	ь
TAPE LOADING/FL-A ON	ON	OFF	OFF	3.0V ~ 3.4V	С
EJECT/CASSETTE INSERT	ON	ON	OFF	2.4V ~ 2.9V	d
CASSETTE IN	OFF	OFF	ON	0V ~ 2.1V	е



TAF	JE L	DAC	ING	SWITCH	H=1 L=0
LD-SW		SYMBOL	POSITION		
Α	В	C	D	STIMBOL	
L	L	H	г	EJ	CASSETTE LOADING, EJECT
Ĺ	Н	Н	$\overline{}$	EU	INTERMEDIATE
L	Н	н	Н	FR	FF. REW
Н	H	Н	Н	FU	INTÉRMEDIATE
Н	H	Н	L	ÜN	STOP 2 (POWER OFF POSITION)
Н	П	Н	L	LU	TAPE LOAING
н	L	T.	L	ST	STOP 1 (QUICK START POSITION). GEAR CHANGE)
11	H	ī	L	AU	INTERMEDIATE
Н	Н	Į.	Н	AL	PLAY, REC. PAUSE
L	Н	L	Н	FS	INTERMEDIATE
L	L	L	Ĥ	RU	INTERMEDIATE
-	L	н	н	AS	SHORT REW





IC6001 (SYSTEM CONTROL / TIMER IC)

Note: H≥4.6V, L≤0.5V (Approx.)

Pin No.	In/Out	Signal Name	Function	Active Level
1	OUT	DATA	DAC IC (TV Section) Control Signal (Data)	H
2	OUT	CLOCK	DAC IC (TV Section) Control Signal (Clock)	H
13	OUT	PERIOD	DAC IC (TV Section) Control Signal (Period)	Н
4	OUT	AFT-DEF	AFT Defeat Signal	Н
5	OUT	BAND VL	Tuner Band Signal (VL Band)	H
6	OUT	BAND VH	Tuner Band Signal (VL Band) Tuner Band Signal (VH Band)	Н
. 7	OUT			Н
8	OUT	BAND U	Tuner Band Signal (U Band)	Н
		A-MUTE	Audio Mute Signal	n n
10		NC.	Maria de ED Octobril	
1	OUT	MONITOR	Monitor LED Control	L
11	OUT	D-REC	Video/Audio Recording Instruction	H
	OUT	NTSC-H	"H" at NTSC Mode	H
13	-	NC NC		and the second of the
14 15	-	NC NC		
	OUT.	NC NC	Hith at Diva Danis Mada	
16	OUT	BLUE	"H" at Blue Back Mode	H
17	OUT	REC-LED	Record LED Control	H
18	OUT	TIMER-LED	Timer LED Control	Н
19		NC NC		
20		NC NC		
21	-	NC NC		
22	. •	NC TE	I/- B 0'10 10	.,
23		T5	Key Data Signal Output Port	Н
24		T4	Not Used	
25		T3	Key Data Signal Output Port	Н
26 27	OUT	T2 T1	Key Data Signal Output Port	H
28	OUT	TO	Key Data Signal Output Port	Н
29	IN	CTL-P	Key Data Signal Output Port	
30	OUT	OSC 2 OUT	Control Pulse Signal	-
31	IN	OSC 2 IN	Crystal Oscillator 32KHz Output	
			Crystal Oscillator 32KHz Input	1 7
32	IN	RESET	Reset at RESET Signal Input "L", Normal at "H"	L ¦
33	-	NC NC		
34	IN	VDD	Power Source (+5V)	+5V
35	IN	KEY DATA 0	Key Scan Signal Input Port	Н
36	!N	KEY DATA 1	Key Scan Signal Input Port	Н
37	IN	KEY DATA 2	Key Scan Signal Input Port	Н
38⁵	OUT	OSD STB	On-screen IC Control Signal (STB)	-
39	IN	KEY DATA 3	Key Scan Signal Input Port —	Н
40	IN_	KEY DATA 4	Key Scan Signal Input Port	Н
41	IN	END-S	Tape End Position Detect	L L
42	IN	PAUSE	Play Pause LED Control	Н
43	IN	C-FG	Capstan-Freq. Generator Reel Rotation Signal Input	~
44	IN	REEL	Reel Rotation Signal Input	-
45	-	NC NC		ļ
46	IN `	SD	Tuner/Video Sync Signal	L.
47	OUT	S-CLK	Servo IC Timing Clock	-
48	OUT	OSD-CLK	On-screen IC Control Signal (Clock)	

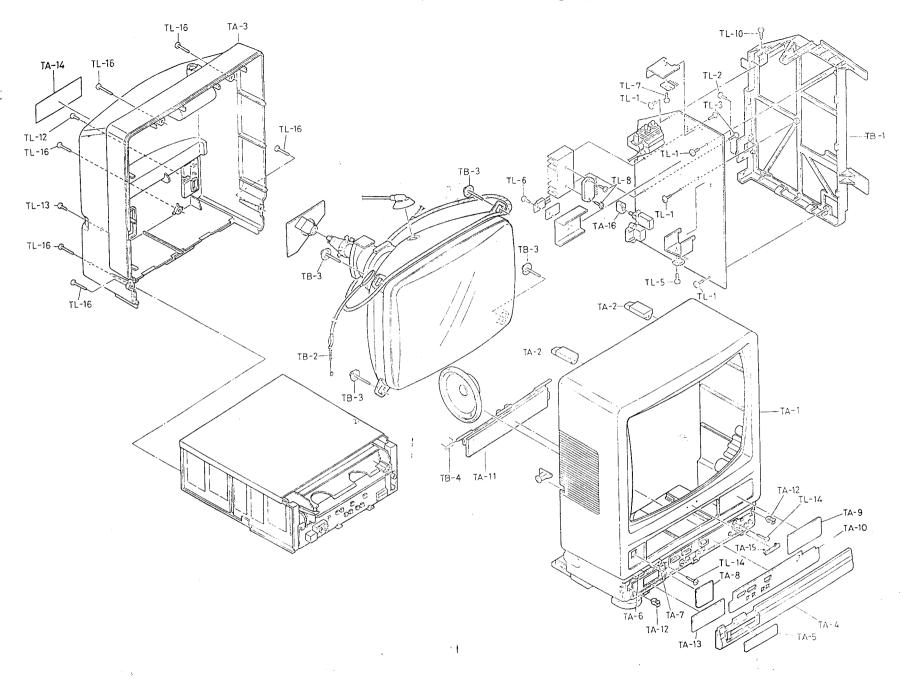
Pin No.	in/Out	Signal Name	Function	Active Level
49	OUT	S-DATA	Servo IC Signal (Data)	÷ _
50	IN/OUT	MON-DATA	Memory IC Data	-
51	OUT	MON-CLK	Memory IC Timing Clock	-
52	OUT	D-ON	Drum Rotate Instruction	L
53	OUT	C-REV	Capstan Motor Reverse Instruction	Н
54	OUT	C-FWD	Capstan Motor Forward Instruction	Н
55	IN	AFT-DOWN	Tuner AFT Voltage Input, "L" at under 2.5V of AFT Voltage	L,
56	IN	AFT-UP	Tuner AFT Voltage Input, "H" at over 5.5V of AFT Voltage	Н
57	IN	RF-SW	Radio Frequency Signal Switching Pulse	-
58	IN	OSD-BUSY	On-screen IC Control Signal (Busy)	-
59	OUT	D-PB	Video/Audio Playback Instruction Signal	L
60	OUT	T-DAC	Tuner Tuning Voltage Control Signal	
61	1N	P-DOWN	"L" at Power Failure, "H" at Normal	L
. 62	IN	REMOCON	Remote Control Serial Signal Input	_
63	IN	ST-S	Tape Start Position Detection	L
64	IN	FL-C	Cassette In Detector	L
65	IN	FL-B	Cassette Out Detector	L
66	IN	FL-A	Cassette Start Detector	L
67	IN	LD-D	Tape Loading Position Detector	LL
68	IN	LD-C	Tape Loading Position Detector	L
69	IN	LD-B	Tape Loading Position Detector	L
70	IN	LD-A	Tape Loading Position Detector	L
71	-	GND	GND	0V
72	IN	OSC 1 IN	Crystal Oscillator 4.19MHz Input	-
73	•	NC		
74	OUT	OSC 1 OUT	Crystal Oscillator 4.19MHz Output	-
75_	IN	VDD	Power Source (+5V)	+5V
76		GND	GND	0V
77	OUT	P-ON	POWER-ON Control	Н
78	OUT	LD-FWD	Tape Loading Instruction	Н
79	OUT	LD-REV	Tape Unloading Instruction	Н
80	OUT	C-FAST	Capstan Motor High Speed Instruction	Н

IC PIN FUNCTION

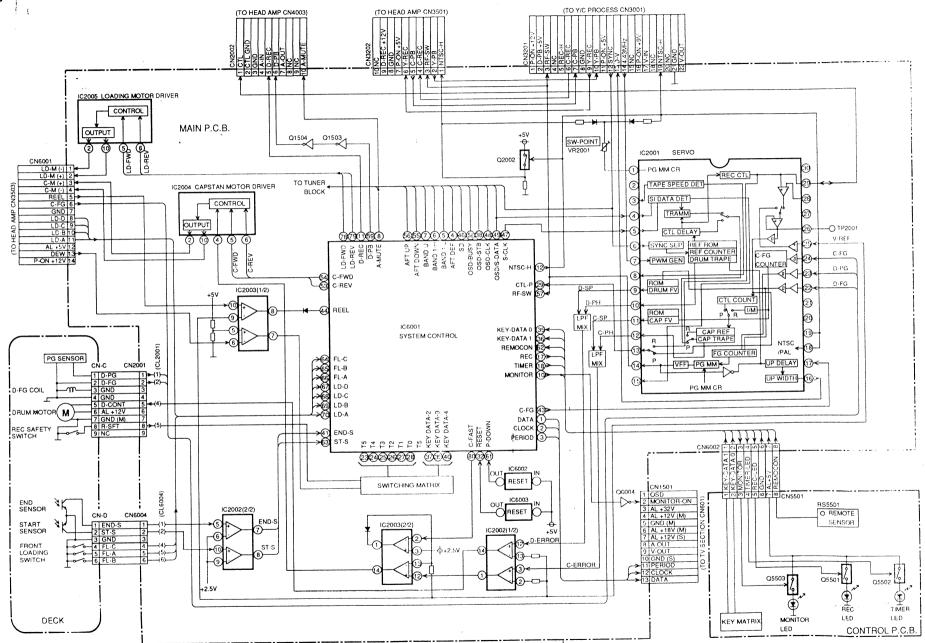
IC101 (D/A CONVERTER IC)

Pin No.	In/Out	Signal Name	Function
1	IN	VCC	Power Source for Interface (+5V)
2	IN	DATA IN	Control Signal (Data) from System Control/Timer IC (VCR)
3	IN	CLOCK	Control Signal (Clock) form System Control/Timer IC (VCR)
4	. IN	LOAD (PERIOD)	Control Signal (Period) from System Control/Timer IC (VCR)
5	-	NC	
6	_	NC	
7	-	NC	
8	-	GND	GND
9	-	NC	
10	-	NC	
11	OUT	T!NT	Chroma IC Control Signal (TINT)
12	OUT	COLOR	Chroma IC Control Signal (COLOR)
13	OUT	BRIGHT	Chroma IC Control Signal (BRIGHTNESS)
14	OUT	CONTRAST	Chroma IC Control Signal (CONTRAST)
15	OUT	VOLUME	Audio IC Control Signal (VOLUME)
16	IN	VDD	Reference Power Source (+12V)

CABINET EXPLODED VIEW [TV]

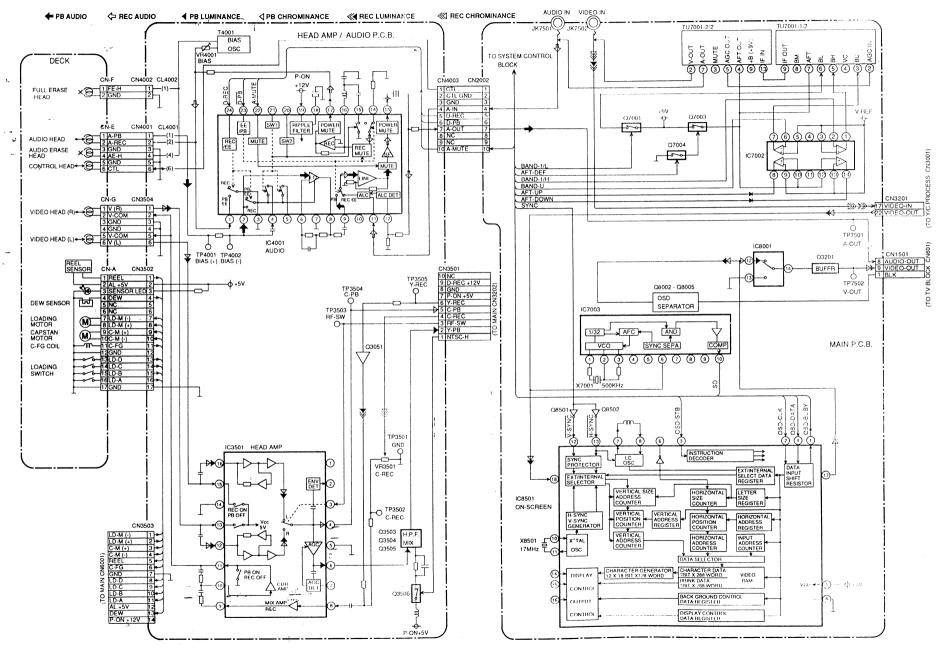


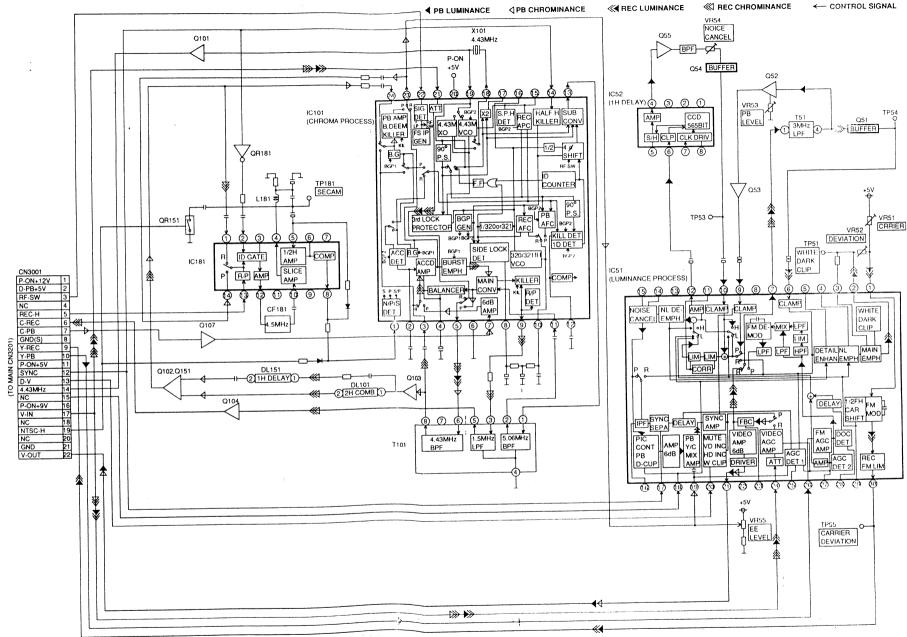
System Control/Servo/Control Block Diagram



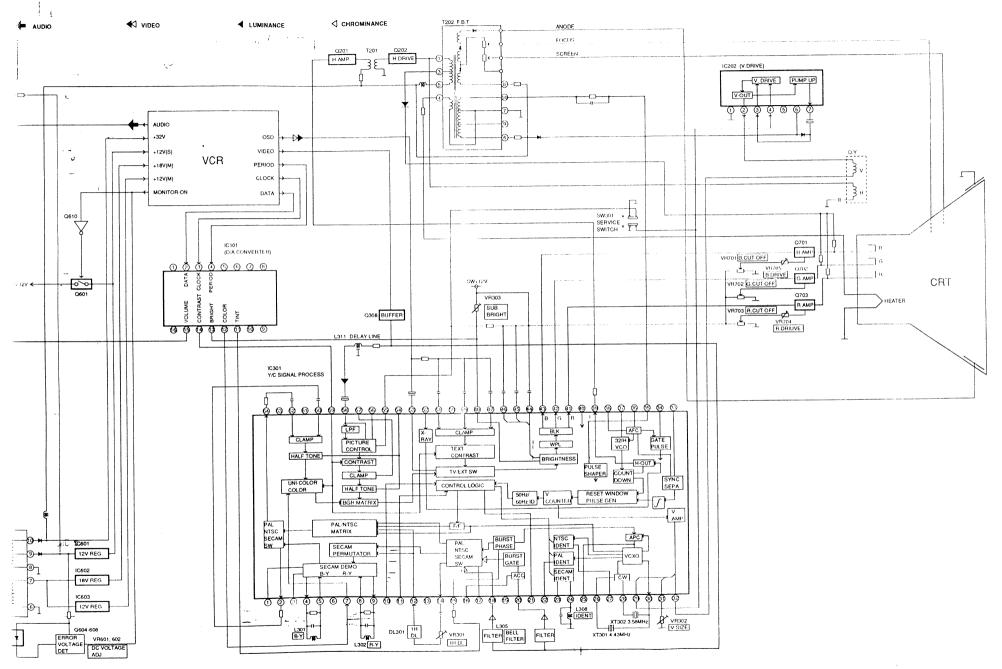
K2870BL-SYS

Head Amp/Audio/Tuner/On-Screen Block Diagram





BLOCK DIAGRAMS



Ref. No.	Drawing No.	Description	Q'ty	Part No.
268	3	Spring, Take-up Soft Brake Arm	1	8059-10-06
269	3	Spring, S Soft Brake	1	8059-10-22
270	3	Washer, Polyslider, ø2.1 x ø5 x t0.5	1 1	9876-00-00
271	3	Spring, Trigger Lever	1	8059-10-23
272	3	Brake Actuate Base Spring	1	8059-10-10
273	3	Brake Plate Spring	1	8059-10-12
281	2	LM Assembly	1	8059-11-301
282	2	Bearing Assembly, Trigger	1	8059-11-302
283	2	Pulley, Loading	1	8059-11-03
284	2	Washer, Polyslider, ø1.6 x ø3.8 x t0.3	1	9743-00-00
285	2	Belt, Loading	1	8059-11-06
286	2	Arm (B), Search	1	8059-11-12
287	2	Washer, Polyslider, ø2.6 x ø6 x t0.5	1	9884-00-00
288	2	Gear, Loading	1	8059-11-04
289	2	Washer, Polyslider, ø2.1 x ø5 x t0.5	1	9876-00-00
290	2	Arm, Brake Actuate	1	8059-11-13
291	2	Arm, Eject Actuate	1	8059-11-14
293	2	Cam, Loading	1	8059-11-01
294	2	Brush, S	1	8059-11-02
295	2	Screw, C-tight, M3 x 4	2	9105-00-00
296	2	Washer, Polyslider, ø2.6 x ø8 x t 0.5	1	9999-03-10
312	2	Lever Semi Assembly, Loading	1	8059-12-501
313	2	Roller, Cam	1	8059-12-13
	+	Plate, Loading Gear	1	8059-12-09
314	2	——————————————————————————————————————	1	8059-12-10
-315	2	Collar, Loading Gear Plate	1	9203-00-00
316	2	Screw, C-tight, M3 x 6	11	8059-12-502
317	2	Lever Semi Assembly, Loading Actuate	1	8059-12-503
318	2	Plate, Semi Assembly, Loading Actuate	 	8059-12-05
319	2	Spring, Loading Actuate	1	8059-12-11
320	2	Plate, Loading Lever Reinforce		9078-00-00
321	2	Screw, Serns, M2 x 5	2	
322	2	Spring, L Gear Plate	1 1	8059-12-12
331	2	Screw, C-tight, M2.6 x 5	1	9192-00-00
332	2	Collar	1	8059-06-18
333	2	Lever, REC	1	8059-13-06
334	2	Actuator, REC	1	8059-13-07
335	2	Spoke, REC Actuate	11	8059-13-11
336	2	Sensor, DEW	1	6808-08-04
337	2	Screw, Sems, M2.6 x 4	1 1	9096-00-00
338	2	Plate Base	11	8059-13-307
339	2	Screw, S-tight (For Camera), M2.6 x 5	1	9803-00-00
341	1	Switch, Leaf	11	6401-01-151
342	1	Screw, C-Tight, M2.6 x 5	1	9192-00-00
343	1	Wire	2	8059-13-08
344	11	Holder, Wire	1	8059-13-10
345	1	Holder Assembly	1	8059-13-306
346	2	Spring, Rec Lever		8059-13-14
347.	2	Collar, Screw	1	8059-13-17
361	2	Actuator, Eject	1 1	8059-15-08
362	2	Collar	1 1	8059-06-18
363	2	Screw, C-tight, M2.6 x 5	1	9192-00-00
364	2	Plate, L Brake	1	8059-15-07
365	2	Collar	1	8059-06-18
366	2	Screw, C-tight, M2.6 x 5	1	9192-00-00
367	2	Arm Assembly, E Idler (Consists of 368-370)	1	8059-15-303
368	2	Arm Semi Assembly, E Idler	1	8059-15-502
369	2	Pulley, Eject	1	8059-15-15
370	2	Washer, Polyslider, #1.6 x #3.8 x t0.3	1	9743-00-00
	1 2	Spring, Idler Arm	1	8059-15-11

373 2 Belt, F 390 4 Loadii 391 4 Brack 392 4 Clutch 393 4 P.C.B 394 4 Senso 395 4 Brack 396 4 Lever 397 4 Lever 398 4 Bearii 399 4 Wash 400 4 Screw 401 4 Sprin 417 4 Screw 420 4 Angle 421 4 Angle 422 4 Guide 422 4 Guide 423 4 Guide 423 4 Guide 424 Angle 425 4 Plate 426 4 Sprin 437 4 Screw 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 449 4 Plate 450 4 Sprin 451 4 Collai 452 4 Plate 453 4 Rolle 454 4 Plate 455 4 Sprin 456 4 Plate 457 4 Screw 458 4 Sprin 451 4 Collai 452 4 Sprin 451 4 Collai 452 4 Sprin 453 4 Screw 453 4 Rolle 454 4 Plate 455 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 454 4 Plate 455 4 Sprin 456 4 Screw 457 4 Screw 458 4 Screw 459 4 Plate 450 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 454 4 Screw 455 4 Sprin 456 4 Screw 457 4 Screw 458 4 Screw 459 4 Plate 450 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 454 4 Screw 455 4 Sprin 456 4 Screw 456 4 Screw 456 4 Screw 457 4 Screw 458 4 Screw 459 4 Sprin	Description	Q'ty	Part No.
373 2 Belt, F 390 4 Loadi 391 4 Brack 392 4 Clutch 393 4 P.C.B 394 4 Senso 395 4 Brack 396 4 Lever 397 4 Lever 398 4 Bearin 399 4 Wash 400 4 Screw 401 4 Screw 401 4 Holde 412 4 Holde 412 4 Holde 413 4 Plate 415 4 Collai 416 4 Sprin 417 4 Screw 420 4 Angle 421 4 Angle 421 4 Angle 422 4 Guide 423 4 Guide 423 4 Guide 423 4 Guide 423 4 Guide 424 Angle 425 4 Fallat 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Screw 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screw 438 4 Lever 438 4 Lever 439 4 Rolle 440 4 Rolle 440 4 Rolle 441 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 449 4 Plate 449 4 Plate 440 4 Rolle 441 4 Screw 449 4 Plate 440 4 Rolle 441 4 Rolle 442 4 Rolle 444 4 Screw 449 4 Plate 449 4 Plate 449 4 Plate 449 4 Plate 440 4 Rolle 441 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 449 4 Plate 449 4 Plate 440 4 Rolle 441 4 Screw 442 4 Rolle 444 4 Gear 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 449 4 Plate 449 4 Plate 450 4 Sprin 461 4 Fram 462 4 Whee	r, Polyslider, ø2.1 x ø6 x t0.5	11	9876-00-00
390	ront Loading	1	8059-15-06
391	g Assembly, Front (Consists of following)	. 1	8059-16-337
392	t Assembly, Cassette Load (Consists of 392~401)	11	8059-16-318
393	Assembly, Front Loading	1	8059-16-319
394	Assembly, Front Loading	1	8059-16-320
395	r P.C.B. (RM)	1	8059-16-316
396	et Semi Assembly, Cassette Load	1	8059-16-506
397 4 Lever 398 4 Bearin 399 4 Wash 400 4 Screw 401 4 Holde 411 4 Holde 412 4 Holde 413 4 Plate 415 4 Collai 416 4 Sprin 417 4 Screw 420 4 Angle 421 4 Angle 422 4 Guide 433 4 Plate 433 4 Plate 433 4 Plate 431 4 Plate 434 4 Rolle 437 4 Screw 438 4 Lever 439 4 Rolle 440 4 Rolle 441 4 Plate 440 4 Rolle 441 4 Plate 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 454 4 Screw 455 4 Screw 456 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 454 4 Gear 465 4 Sprin 466 4 Gear	IN SW	1	8059-16-34
398		1	8059-16-33
399 4 Wash 400 4 Screw 401 4 Screw 401 4 Screw 401 4 Holde 412 4 Holde 413 4 Plate 415 4 Collan 416 4 Sprin 417 4 Screw 420 4 Angle 421 4 Angle 422 4 Guide 423 4 Guide 430 4 Plate 433 4 Plate 430 4 Plate 431 4 Plate 433 4 Screw 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screw 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 448 4 Screw 449 4 Plate 449 4 Plate 440 4 Rolle 441 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 454 4 Screw 455 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 455 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 454 4 Screw 455 4 Sprin 456 4 Gear 466 4 Gear	g (A), F Worm	1	8059-16-06
400 4 Screw 401 4 Screw 401 4 Screw 401 4 Holde 411 4 Holde 412 4 Holde 413 4 Plate 414 4 Plate 415 4 Collai 416 4 Sprin 417 4 Screw 420 4 Angle 421 4 Angle 422 4 Guide 423 4 Guide 430 4 Plate 431 4 Plate 430 4 Plate 431 4 Screw 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Screw 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screw 438 4 Lever 437 4 Screw 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 450 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 450 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 455 4 Screw 453 4 Rolle 456 4 Gear 466 4 Gear	er, Polyslider, ø1.6 x ø3.8 x t0.3	1	9743-00-00
401	. Sems, M2.6 x 4	2	9096-00-00
411 4 Holde 412 4 Holde 413 4 Plate 413 4 Plate 414 4 Plate 415 4 Collai 416 4 Sprin 417 4 Screw 420 4 Angle 421 4 Guide 423 4 Guide 423 4 Guide 423 4 Plate 423 4 Plate 433 4 Plate 433 4 Plate 434 4 Leve 435 4 Sprin 436 4 Leve 437 4 Screw 438 4 Leve 439 4 Rolle 440 4 Rolle 440 4 Rolle 440 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 448 4 Screw 449 4 Plate 449 4 Plate 440 4 Rolle 447 4 Plate 448 4 Screw 449 4 Plate 450 4 Sprin 451 4 Collai 451 4 Collai 452 4 Screw 453 4 Rolle 464 4 Plate 465 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 454 4 Plate 455 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 455 4 Sprin 451 4 Collai 452 4 Screw 453 4 Rolle 454 4 Plate 455 4 Sprin 455 4 Sprin 456 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	, Sems, M2 x 5	1	9078-00-00
412 4 Holde 413 4 Plate 414 4 Plate 415 4 Collai 416 4 Sprin 417 4 Screv 420 4 Angle 421 4 Angle 422 4 Guick 423 4 Guick 430 4 Plate 431 4 Plate 431 4 Plate 433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Rolle 440 4 Rolle 440 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 448 4 Screv 449 4 Plate 449 4 Plate 440 4 Rolle 441 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 449 4 Plate 440 4 Rolle 447 4 Plate 448 4 Screv 449 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 449 4 Plate 440 4 Plate 441 4 Rolle 442 4 Plate 444 4 Plate 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 449 4 Plate 449 4 Plate 449 4 Plate 450 4 Sprin 451 4 Collai 452 4 Screv 453 4 Rolle 464 4 Gear 465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	Assembly, Cassette (Consists of 412-417)	1	8059-16-306
413 4 Plate, 414 4 Plate 415 4 Collai 416 4 Sprin 417 4 Screv 420 4 Angle 421 4 Angle 422 4 Guide 423 4 Plate 430 4 Plate 431 4 Plate 430 4 Plate 431 4 Collai 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 440 4 Rolle 440 4 Rolle 441 4 Plate 440 4 Plate 440 4 Plate 440 4 Plate 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 448 4 Screv 449 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Collai 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 466 4 Gear 468 4 Arm, 469 4 Sprin	r, Cassette	1	8000-22-03
414 4 Plate 415 4 Collar 416 4 Sprin 417 4 Screv 420 4 Angle 421 4 Guide 423 4 Guide 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Ceve 433 4 Leve 434 4 Leve 435 4 Sprin 436 4 Leve 437 4 Screv 438 4 Leve 439 4 Rolle 440 4 Rolle 441 4 Plate 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 448 4 Screv 449 4 Plate 448 4 Screv 449 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 464 4 Gear 465 4 Whe 466 4 Gear		1	8000-22-13
415 4 Collar 416 4 Sprin 417 4 Screv 420 4 Angle 421 4 Angle 422 4 Guick 423 4 Plate 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Lever 437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 439 4 Rolle 445 4 Plate 446 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 450 4 Sprin 451 4 Collar 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 463 4 Gear 465 4 Sprin 466 4 Gear	A), C Lock	1	8000-22-12
416 4 Sprin 417 4 Screw 420 4 Angle 421 4 Angle 421 4 Guick 423 4 Guick 423 4 Plate 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Screw 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screw 438 4 Lever 438 4 Plate 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 449 4 Plate 448 4 Screw 449 4 Plate 450 4 Sprin 451 4 Colla 451 4 Colla 452 4 Sprin 453 4 Rolle 454 4 Plate 455 4 Sprin 456 4 Sprin 466 4 Gear 465 4 Sprin 466 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin		1	8059-06-18
417 4 Screv 420 4 Angle 421 4 Angle 422 4 Guide 423 4 Plate 430 4 Plate 431 4 Plate 431 4 Plate 432 4 Screv 433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 449 4 Plate 450 4 Sprin 451 4 Colla 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 464 4 Fram 465 4 Whe 465 4 Sprin 466 4 Gear		1	8059-16-29
420 4 Angle 421 4 Angle 421 4 Guide 423 4 Guide 430 4 Plate 430 4 Plate 431 4 Plate 431 4 Plate 432 4 Plate 433 4 Scree 434 4 Leve 435 4 Sprin 436 4 Leve 437 4 Scree 438 4 Leve 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Sprin 450 4 Sprin 451 4 Colla 452 4 Scree 453 4 Rolle 461 4 Fram 461 4 Fram 462 4 Whe 463 4 Sprin 466 4 Gear	, SL (For Camera), M2.6 x 3	1	9968-00-00
421 4 Angle 422 4 Guide 423 4 Guide 430 4 Plate 431 4 Plate 431 4 Plate 432 4 Plate 433 4 Screv 434 4 Leve 435 4 Sprin 436 4 Leve 437 4 Screv 438 4 Leve 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 439 4 Rolle 446 4 Plate 447 4 Plate 448 4 Screv 439 4 Rolle 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 461 4 Fram 462 4 Whe 463 4 Gear 465 4 Sprin 466 4 Gear	Assembly, Front (Consists of 421–423)	1	8059-16-307
422 4 Guick 423 4 Guick 423 4 Plate 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Screv 434 4 Levet 435 4 Sprin 436 4 Levet 437 4 Screv 438 4 Levet 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprir 466 4 Gear 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir		1	8059-16-18
423 4 Guick 430 4 Plate 431 4 Plate 432 4 Plate 433 4 Plate 433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 451 4 Colla 451 4 Colla 452 4 Screv 453 4 Rolle 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 454 4 Plate 455 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 456 4 Sprin 466 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin		1	8059-16-25
430 4 Plate 431 4 Plate 431 4 Plate 432 4 Plate 433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin			8059-16-24
431 4 Plate 432 4 Plate 433 4 Screw 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screw 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Sprin 450 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm 469 4 Sprin	(L), Tape	1	8059-16-308
432 4 Plate 433 4 Screw 434 4 Levet 435 4 Sprin 436 4 Levet 437 4 Screw 438 4 Levet 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screw 459 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screw 453 4 Rolle 460 4 Fram 461 4 Fram 461 4 Gear 465 4 Sprin 466 4 Gear	(R) Assembly, Side (Consists of 431, 434~440)	1	8059-16-502
433 4 Screv 434 4 Lever 435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 447 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 468 4 Arm, 469 4 Sprin	(R), Side	1	8059-16-28
434 4 Levet 435 4 Sprin 436 4 Levet 437 4 Screv 438 4 Levet 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 451 4 Rolle 460 4 Fram 461 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm 469 4 Sprin	Cassette Push		
435 4 Sprin 436 4 Lever 437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm 469 4 Sprin	(For Camera), M2.6 x 2	1	9833-00-00
436 4 Level 437 4 Scree 438 4 Level 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Scree 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Scree 460 4 Fram 461 4 Fram 462 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	Open		8000-22-25
437 4 Screv 438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Where 463 4 Where 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	, Open Lever	11	8000-22-44
438 4 Lever 439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm 469 4 Sprin	Collar, Open	1	8000-22-42
439 4 Rolle 440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 461 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	, SL (For Camera), M2 x 4	11	9967-00-00
440 4 Rolle 445 4 Plate 446 4 Plate 447 4 Plate 448 4 Scre 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Scre 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	Lock Release	1	8000-22-16
445 4 Plate 446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 461 4 Gear 465 4 Sprin 466 4 Gear 466 4 Gear 466 4 Gear 466 4 Gear 467 4 Gear 468 4 Arm 469 4 Sprin	, Guide	2	8000-22-75
446 4 Plate 447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Whe 463 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 465 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	, Guide	1	8000-22-23
447 4 Plate 448 4 Screv 449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	(L) Assembly, Side (Consists of 446, 449~453)	11	8059-16-309
448 4 Screv 449 4 Plate 450 4 Sprint 451 4 Colla 452 4 Screv 453 4 Rolle 460 4 Fram 461 4 Fram 461 4 When 463 4 When 464 4 Gear 465 4 Sprint 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprint	(L), Side	11	8059-16-503
449 4 Plate 450 4 Sprin 451 4 Colla 452 4 Scre 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	Cassette Push	1	8059-16-28
450 4 Sprin 451 4 Colla 452 4 Scree 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Gear 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	/ (For Camera), M2.6 x 2	1	9833-00-00
450 4 Sprin 451 4 Colla 452 4 Scree 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Gear 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	(L), C Lock	1	8000-22-66
451 4 Colla 452 4 Scre 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe- 463 4 Whe- 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	g (L), Lock Plate	11	8059-16-30
452 4 Scree 453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe- 463 4 Whe- 464 4 Gear 465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	, Lock Plate	1	8000-19-63
453 4 Rolle 460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	v (For Camera), M2 x 2.5	1	9966-00-00
460 4 Fram 461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	, Guide	2	8000-22-75
461 4 Fram 462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin	e (R) Assembly (Consists of 461-462, 466, 470~472)	1	8059-16-339
462 4 Whe 463 4 Whe 464 4 Gear 465 4 Sprin 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprin		1	8059-16-507
463 4 Whe- 464 4 Gear 465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	Assembly, Worm (Consists of 463~465)	1	8059-16-321
464 4 Gear 465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	N, Worm	1	8059-16-36
465 4 Sprir 466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	priction	1	8059-16-45
466 4 Gear 467 4 Gear 468 4 Arm, 469 4 Sprir	g, Friction	11	8059-16-31
467 4 Gear 468 4 Arm, 469 4 Sprir	(R) Assembly, Lift	1	8059-16-312
468 4 Arm, 469 4 Sprir	(R), Lift	1	8000-22-15
469 4 Sprir	1.1.L	1	8000-22-11
		1	8000-22-45
	o, Open Lever	1	8000-22-26
	e, Guide	1	8000-22-24
		2	9504-00-00
	g S 2.5 e (L) Assembly (Consists of 481~483, 487~491)	1	8059-16-338

N2NRM554

Ref. No.	Description	Part No.
Q304	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
4001	TR. 2SC3331TNPAA(T) or	2SC3331TNPAA
	TR. 2SC3331UNPAA(U) or	2SC3331UNPAA
	TR. 2SC1740S(Q) (Z) or	2SC1740STPQ
	TR. 2SC1740S(R) (Z)	2SC1740STPR
0005	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
Q305	TR. 2SC3331TNPAA(T) or	2SC3331TNPAA
	TR. 2SC3331UNPAA(U) or	2SC3331UNPAA
	TR. 2SC1740S(Q) (Z) or	2SC1740STPQ
	TR. 2SC1740S(R) (Z)	2SC1740STPR
	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
Q306	TR. 2SC3331TNPAA(T) or	2SC3331TNPAA
	TR, 2SC3331UNPAA(U) or	2SC3331UNPAA
		2SC1740STPQ
	TR. 2SC1740S(Q) (Z) or	2SC1740STPR
	TR. 2SC1740S(R) (Z) TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
Q308	1	2SC3331TNPAA
ł	TR. 2SC3331TNPAA(T) or	2SC3331UNPAA
	TR. 2SC3331UNPAA(U) or TR. 2SC1740S(Q) (Z) or	2SC1740STPQ
	TR. 2SC1740S(G) (Z) 67	2SC1740STPR
0504		2SK212F
Q501	TR. 2SK212F(F) or TR. 2SK212F(E)	2SK212E
	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
Q510	1	2SC3331TNPAA
1	TR. 2SC3331TNPAA(T) or TR. 2SC3331UNPAA(U) or	2SC3331UNPAA
1	TR. 2SC3331UNPAA(U) or	2SC1740STPQ
1		2SC1740STPR
	TR. 2SC1740S(R) (Z) TR. 2SB1274(R) or	Q2SB1274R000
O601	TR. 2SB1274(S)	Q2SB1274S000
0000	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
0602	TR. 2SC3331TNPAA(T) or	2SC3331TNPAA
	TR 2SC3331UNPAA(U) or	2SC3331UNPAA
	TR. 2SC1740S(Q) (Z) or	2SC174CSTPO
1	1	2SC1740STPR
1	TR. 2SC1740S(R) (Z)	2SC1815GRTPE2
O603	TR. 2SC1815GRTPE2(GR) or	2SC3331TNPAA
	TR. 2SC3331TNPAA(T) or	2SC3331UNPAA
1	TR. 2SC3331UNPAA(U) or	2SC1740STPQ
ļ	TR. 2SC1740S(Q) (Z) or	2SC1740STPR
	TR. 2SC1740S(R) (Z)	2SA1318T-AA-NP
Q604	TR. 2SA1318AANP(T) or	2SA13181-AA-NP
1	TR. 2SA1318AANP(U) or	
	TR. 2SA933S(R) (Z) or	2SA933RZ 2SA933SZ
	TR. 2SA933S(S) (Z)	2SC1815GRTPE2
Q605	TR. 2SC1815GRTPE2(GR) or	2SC3331TNPAA
	TR. 2SC3331TNPAA(T) or	2SC3331UNPAA
	TR. 2SC3331UNPAA(U) or	2SC1740STPO
	TR. 2SC1740S(Q) (Z) or	2SC1740STPG
	TR. 2SC1740S(R) (Z)	2SC1815GRTPE2
C)606	TR. 2SC1815GRTPE2(GR) or	2SC3331TNPAA
	TR. 2SC3331TNPAA(T) or	2SC3331UNPAA
1	TR. 2SC3331UNPAA(U) or	l l
	TR. 2SC1740S(Q) (Z) or	2SC1740STPQ 2SC1740STPR
	TR. 2SC1740S(R) (Z)	2SC174051PH 2SC1815GRTPE
Q607	TR. 2SC1815GRTPE2(GR) or	2SC3331TNPAA
	TR. 2SC3331TNPAA(T) or	1
1	TR. 2SC3331UNPAA(U) or	2SC3331UNPAA
1	TR. 2SC1740S(Q) (Z) or	2SC1740STPQ
1	TR. 2SC1740S(R) (Z)	2SC1740STPR
Q608	TR. 2SC2271 AEMP(D) or	2SC2271D-AE-M
ı	TR. 2SC2271AEMP(E)	2SC2271E-AE-M

Ref. No.	Description	Part No.
0610	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
0010	TR. 2SC3331TNPAA(T) or	2SC3331TNPAA
	TR, 2SC3331UNPAA(U) or	2SC3331UNPAA
	TR. 2SC1740S(Q) (Z) or	2SC1740STPQ
	TR. 2SC1740S(R) (Z)	2SC1740STPR
	RESISTORS	1200
		132A102T
R 3	CARBON RES. 1KΩ 1/6W	132A103T
R 4	CARBON RES. 10KΩ 1/6W CARBON RES. 3.3KΩ 1/6W	132A332T
R 5	CARBON RES. 6.8KΩ 1/6W	132A682T
R 6	CARBON RES. 1.2K() 1/6W	132A122T
R 7	CARBON RES. 18KΩ 1/6W	132A183T
R 8	CARBON RES. 4.7Ω 1/4W J	1345479S
R 9	FUSE RES. 2.2Q 1W or	5363229
R 11		5368229
	FUSE RES. 2.2Ω 1W	132A101T
R 12	CARBON RES. 100Ω 1/6W	132A683T
R101	CARBON RES. 68KΩ 1/6W CARBON RES. 82KΩ 1/6W	132A823T
R102	CARBON RES. 82KΩ 1/6W	132A184T
R103	CARBON RES. 180K32 1/6W	132A472T
R104	CARBON RES. 10KΩ 1/6W	132A103T
R106	CARBON RES. 6.8KΩ 1/6W	132A682T
R107	CARBON RES. 270KΩ 1/6W	132A274T
R109	CARBON RES. 6.8KΩ 1/6W	132A682T
R110	CARBON RES. 2.7KΩ 1/6W	132A272T
R111	CARBON RES. 15KΩ 1/6W	132A153T
R112	CARBON RES. 6.8K() 1/6W	132A682T
R113	CARBON RES. 47KΩ 1/6W	132A473T
R114	CARBON RES. 22KΩ 1/6W	132A223T
R115	CARBON RES. 6.8KΩ 1/6W	132A682T
R116	CARBON RES. 27KΩ 1/6W	132A273T
R117	CARBON RES. 22KΩ 1/6W	132A223T
R118	CARBON RES. 6.8KΩ 1/6W	132A682T
R119	CARBON RES. 2.2KΩ 1/6W	132A222T
R120	CARBON RES. 2.2KΩ 1/6W	132A222T
R121		132A222T
R122	CARBON RES. 2.2KΩ 1/6W	132A102T
R123	CARBON RES. 1KQ 1/6W	132A223T
R128	CARBON RES. 22KΩ 1/6W	132A222T
R129	CARBON RES. 2.2KΩ 1/6W	132A222T
R130	CARBON RES. 2.2KΩ 1/6W	132A222T
R131	CARBON RES. 2.2KΩ 1/6W	1345152S
R201	CARBON RES. 1.5KΩ 1/4W J	1345152S
R202	CARBON RES. 1.5KΩ 1/4W J	RW05332KA006
R203	CEMENT RES. 3.3KΩ 5W or	RW05332KA000
1	CEMENT RES. 3.3KΩ 5W	RW05392KA006
R204	CEMENT RES. 3.9KΩ 5W or	RW05392UB001
1	CEMENT RES. 3.9KΩ 5W	5363339
R207	FUSE RES. 3.3Ω 1W or	5368339
	FUSE RES. 3.3Ω 1W	132A154T
R208	CARBON RES. 150KΩ 1/6W	132A154T
R209	CARBON RES. 150KΩ 1/6W or	1324154T
	CARBON RES. 150KΩ 1/5W [for CRT701 37GDA85X-TC01(P)/	10241041
1	CRT701 370KRB22-TC09(SPYB)	
R209	CARBON RES. 180KΩ 1/6W or	132A184T
Inz08	CARBON RES. 180KΩ 1/5W	1324184T
	[lor CRT701 A34KFC12XX48]	1
D240	CARBON RES. 47KQ 1/6W	132A473T
R210	CARBON RES. 120Ω 1/6W	132A121T
IR211	CAMBON MES. 12032 1/011	102

			D-1 No	Description	Part No.
Ref. No.	Description	Part No.	Rel. No.	CARBON RES. 3.9KΩ 1/6W	132A392T
R212	FUSE RES. 2.2Ω 1W or	5363229	R351 R355	CARBON RES. 18KΩ 1/6W	132A183T
nziz	FUSE RES. 2.2Ω 1W	5368229	1	CARBON RES. 470Ω 1/6W	132A471T
R213	CARBON RES. 10KΩ 1/2W	1322103	R356	CARBON RES. 22KΩ 1/6W	132A223T
R216	CARBON RES. 82KΩ 1/6W	132A823T	R357	CARBON RES. 1KΩ 1/6W	132A102T
	CARBON RES. 10KΩ 1/6W	132A103T	R359	CARBON RES. 1.8KΩ 1/6W	132A182T
R217	CARBON RES. 33KΩ 1/6W	132A333T	R360	CARBON RES. 8.2KΩ 1/6W	132A822T
R218	CARBON RES. 1.2KΩ 1/6W	132A122T	R361	CARBON RES. 47KΩ 1/6W	132A473T
R221	CARBON RES. 82KΩ 1/6W	132A823T	R362	CARBON RES. 75Ω 1/6W	132A750T
R223	CARBON RES. 2.7KΩ 1/6W	132A272T	R363	CARBON RES. 1.5KΩ 1/6W	132A152T
R224	CARBON RES. 3.3KΩ 1/6W	132A332T	R364	CARBON RES. 1.5KΩ 1/6W	132A152T
R225 R227	CARBON RES. 1Ω 1/4W J	1345109S	R365	CARBON RES. 270Ω 1/6W	132A271T
1	CARBON RES. 1.2Ω 1/4W J	1345129\$	R366	CARBON RES. 8.2KΩ 1/6W	132A822T
R228	CARBON RES. 1KΩ 1/6W	132A102T	R367	CARBON RES. 4.7KΩ 1/6W	132A472T
R229	METAL RES. 680Ω 1W	534 A681	R369	CARBON RES. 470Ω 1/6W	132A471T
R230	FUSE RES. 68Ω 1/2W or	5362680	R371	CARBON RES. 4.7K\O 1/6W	132A472T
R231	FUSE RES. 68Ω 1/2W	5367680	R372	CARBON RES. 470Ω 1/6W	132A471T
	CARBON RES. 82Ω 1/6W	132A820T	R374		RW051R0KA00
R233	CARBON RES. 150KΩ 1/6W	132A154T	R501	CEMENT RES. 1Ω 5W or	RW051R0UB00
R234		132A822T	i	CEMENT RES. 1Ω 5W	13451055
R301	CARBON RES. 8.2KΩ 1/6W CARBON RES. 270Ω 1/6W	132A271T	R502	CARBON RES. 1MΩ 1/4W J	534B473
R302	CARBON RES. 2.7Ks2 1/6W	132A272T	R503	METAL RES. 47KΩ 2W	13453315
R303	CARBON RES. 4.7KΩ 1/6W	132A472T	R504	CARBON RES. 330Ω 1/4W J	13451225
R304	CARBON RES. 2.2KΩ 1/6W	132A222T	R505	CARBON RES. 1.2KΩ 1/4W J	132A331T
R307		132A102T	R506	CARBON RES. 330Ω 1/6W	13452228
R308	CARBON RES. 1KΩ 1/6W	132A391T	R508	CARBON RES. 2.2KΩ 1/4W J	RW05R47KA0
R309	CARBON RES. 390Ω 1/6W	132A222T	R513	CEMENT RES. 0.47Ω 5W or	RW05R47UB0
R310	CARBON RES. 2.2KO 1/6W	132A334T	1 1	CEMENT RES. 0.47(25W or	RW05R47PG
R312	CARBON RES. 330KΩ 1 6W	132A333	1 1	CEMENT RES. 0.47Ω 5W	13455609
R313	CARBON RES. 33KΩ 1/6W J	132A153T	R514	CARBON RES. 56Ω 1,4W J	13453355
R314	CARBON RES. 15KΩ 1/6W	132A102T	R515	CARBON RES. 3.3MΩ 1/4W J	13451053
R316	CARBON RES. 1KΩ 1/6W	132A821T	R516	CARBON RES. 1MΩ 1/4W J	132A103T
R317	CARBON RES. 820Ω 1/6W	132A273T	R517	CARBON RES. 10KΩ 1/6W	13451253
R318	CARBON RES. 27KΩ 1/6W	132A122T	R518	CARBON RES. 1.2MΩ 1/4W J	13451058
R319	CARBON RES. 1.2KΩ 1/6W	132A182T	R519	CARBON RES. 1MΩ 1/4W J	132A334T
R320	CARBON RES. 1.8KΩ 1/6W	132A103T	R520	CARBON RES. 330K() 1/6W	534B100
R321	CARBON RES. 10KΩ 1/6W	132A822T	R601	METAL RES. 10Ω 2W	-
R322	CARBON RES. 8.2KΩ 1/6W	132A103T	R602	METAL RES. 0.68Ω 1W	534A688
R323	CARBON RES. 10KΩ 1/6W	132A103T	R603	METAL RES. 12KΩ 3W	534C123
R324	CARBON RES. 10KΩ 1/6W	132A103T	R606	METAL RES. 10Ω 2W	534B100
R325	CARBON RES, 10KΩ 1/6W		R607	CARBON RES, 10KΩ 1/6W	132A103T
R326	CARBON RES. 1.2MΩ 1/6W	132A125T	R608	CARBON RES. 2.2KΩ 1/4W J	13452228
R327	CARBON RES. 330KΩ 1/6W	132A334T	R610	METAL RES. 10Ω 2W	5348100
R329	CARBON RES, 680KΩ 1/6W	132A684T	R612	CARBON RES. 4.7KΩ 1/6W	132A472T
R330	CARBON RES. 1KΩ 1/6W	132A102T	R613	CARBON RES. 27KΩ 1/6W	132A273T
R331	CARBON RES, 18KΩ 1/6W	132A183T	R614	CARBON RES. 10K() 1/6W	132A103T
R332	CARBON RES. 1KΩ 1/6W	132A102T	R615	CARBON RES. 10KΩ 1/6W	132A103T
R333	CARBON RES. 1KΩ 1/6W	132A102T	R616	CARBON RES. 15KΩ 1/6W	132A153T
R334	CARBON RES. 270K() 1/6W	132A274T	R617	CARBON RES, 1KΩ 1/6W	132A102T
R335	CARBON RES. 120Ω 1/6W	132A121T 132A121T	R618	CARBON RES. 3.9KΩ 1/6W	132A392T
R336	CARBON RES. 120Ω 1/6W	1	R619		132A103T
R337	CARBON RES. 10KΩ 1/6W	132A103T	R620		132A682T
R338	CARBON RES. 30KΩ 1/6W	132A303T	R621	DED DOLO 410M	132A333T
R339	CARBON RES. 10KΩ 1/6W	132A103T	R622	CARBON RES. 100KΩ 1/6W	132A104T
R340	CARBON RES. 3.3KΩ 1/6W	132A332T	R623		132A392T
R341	CARBON RES. 470Ω 1/6W	132A471T	R62	CARBON RES. 6 8KΩ 1/6W	132A682T
R343	CARBONIRES, 10KΩ 1/6W	132A103T	R62	THE PROPERTY OF THE PARTY OF TH	1345333S
R345	CARBON RES, 680Ω 1/6W	132A681T	R62	THE PROPERTY OF THE PARTY OF TH	13452739
R346	1	132A271T	R62		132A333T
R347		132A271T	R63		132A5637
R348		132A271T	R63		132A102
1,1040	CARBON RES. 10KΩ 1/6W	132A103T	[H63	ORIDOTTIAL.	

I Ref. No.	Description	Part No.
C230	*MYLAR CAP. 0.0027µF/50V	6250272
	CERAMIC CAP. 180pF/50V CH	12CH181S
	CERAMIC CAP, 180pF/50V CH	12CH181S
	CERAMIC CAP. 180pF/50V CH	12CH181S
C303	CERAMIC CAP. 7pF/50V CH	12CH709S
C304 C305	ELECTROLYTIC CAP. 1µF/50V	126F105S
l	ELECTROLYTIC CAP. 220µF/16V	626C227S
	CERAMIC CAP. 0.01 µF/50V FZ or	12F3103S
C307	CERAMIC CAP, 0.01µF/50V FZ	3F45103S
C308	ISERAMIC CAP, 0.056µF/25V (K)	12Y2563
C308	CERAMIC CAP, 0.056µF/25V (N)	12CH809S
C309	CERAMIC CAP. 0.01 µF/50 V FZ or	12F3103S
ر الالالالالالالالالالالالالالالالالالال	CERAMIC CAP. 0.01µF/50V FZ	3F45103S
C311 -	CERAMIC CAP. 0.01µF/50V FZ or	12F3103S
	CERAMIC CAP. 0.01µF/50V FZ	3F45103S
C312	ELECTROLYTIC CAP. 10µF/50V	126F106S
C312	CERAMIC CAP, 0.01 µF/50V FZ or	12F3103S
5513	CERAMIC CAP. 0.01 µF/50V FZ	3F45103S
C314	ELECTROLYTIC CAP. 0.47µF/50V	126F474S
C314	CERAMIC CAP. 180pF/50V CH	12CH1815
C315	CERAMIC CAP. 18pF/50V SL	1270180S
C316	SEMICONDUCTOR CAP. 0.056µF/25V K	12Y2563S
C319 C320 —	SEMICONDUCTOR CAP. 0.1µF/25V K	12Y2104S
C320 -	CERAMIC CAP. 0.01µF/50V FZ or	12F3103S
0021 -	CERAMIC CAP. 0.01µF/S0V FZ	3F45103S
C322	CERAMIC CAP. 0.01µF/50V FZ or	12F3103S
1	CERAMIC CAP. 0.01µF/50V FZ	3F45103S
C323	CERAMIC CAP, 0.01 µF/50 V FZ or	12F3103S
[CERAMIC CAP. 0.01µF/50V FZ	3F45103S
C324	ELECTROLYTIC CAP. 2.2µF/50V NP	126 X 225 S
C327	SEMICONDUCTOR CAP. 0.056µF/25V K	12Y2563S
C328	CERAMIC CAP. 27pF/50V CH	12CH270S
C329	CERAMIC CAP, 33pF/50V CH	12CH330S
C330	ELECTROLYTIC CAP. 1µF/50V	126F105S
C331	CERAMIC CAP. 0.01 µF/50V FZ or	12F3103S
1	CERAMIC CAP. 0.01 µF/50V FZ	3F45103S
C332	CERAMIC CAP. 0.01 µF/50V FZ or	12F3103S
	CERAMIC CAP. 0.01 µF/50V FZ	3F45103S
C333	CERAMIC CAP. 0.0027µF/50V YB or	12B3272S
1	CERAMIC CAP. 0.0027µF/50V X	3X4C272T
C334	ELECTROLYTIC CAP. 0.47µF/50V NP	126X474S
C335	CERAMIC CAP. 220pF/50V CH	12CH221S
C336	ELECTROLYTIC CAP. 3.3µF/50V	126F335S
C337	MYLAR CAP. 0.022µF/50V	1250223S
C338	SEMICONDUCTOR CAP. 0.022µF/25V K	12Y2223S
C339	SEMICONDUCTOR CAP. 0.022µF/25V K	12Y2223S
l C340	CERAMIC CAP, 220pF/50V YB or	1283221S
JIC 1	CERAMIC CAP. 220pF/50V YB	3B42221T
C341	ELECTROLYTIC CAP. 10µF/50V	126F106S
C342	CERAMIC CAP. 0.01µF/50V FZ or	12F3103S
1	CERAMIC CAP. 0.01 µF/50V FZ	3F45103S
C343	ELECTROLYTIC CAP. 0.47µF/50V	126F474
C344	ELECTROLYTIC CAP. 0.47µF/50V	126F474
C345	ELECTROLYTIC CAP. 0.47µF/50V	126F474
C346	ELECTROLYTIC CAP. 0.47µF/50V NP	126X474S-
C347	ELECTROLYTIC CAP. 10µF/50V	126F106S
C347	ELECTROLYTIC CAP. 0.47µF/50V NP	126X474S
C349	ELECTROLYTIC CAP. 0.47µF/50V NP	126X474S
C350	ELECTROLYTIC CAP. 47µF/50V	126F476S
1	· .	

Ref. No.	Description	Part No.
C351	CERAMIC CAP. 0.01µF/50V FZ or	12F3103S
	CERAMIC CAP. 0.01µF/50V FZ	3F45103S
C352	SEMICONDUCTOR CAP. 0.1µF/25V K	12Y2104S
C352	ELECTROLYTIC CAP. 2.2µF/50V	126F225S
C355	ELECTROLYTIC CAP. 10µF/50V	126F106S
C356	SEMICONDUCTOR CAP. 0.1µF/25V K	12Y2104S
	ELECTROLYTIC CAP. 10µF/50V	126F106S
C357	SEMICONDUCTOR CAP. 0.1µF/25V K	12Y2104S
C358	SEMICONDUCTOR CAP. 0.1 pri25 V K	12CH181S
C359	CERAMIC CAP. 180pF/50V CH	126C107S
C362	ELECTROLYTIC CAP. 100μF/16V ELECTROLYTIC CAP. 10μF/50V	126F106S
C364	SEMICONDUCTOR CAP. 0.056µF/25V K	12Y2563S
C365	CERAMIC CAP, 33pF/50V SL	1270330S
C366	SEMICONDUCTOR CAP, 0.022µF/50V Z	1294223S
C367		1220756
C501 🛧	LINE ACROSS 0.1µF/250V or	122Z181
İ	LINE ACROSS 0.1µF/250V or	CT2E104KF005
	LINE ACROSS 0.1µF/250V	1220756
C502 🕰	LINE ACROSS 0.1µF/250V or	122Z181
1	LINE ACROSS 0.1µF/250V or	CT2E104KF005
į.	LINE ACROSS 0.1µF/250V	CCG2HZP0Z472
C505	CERAMIC CAP. 0.0047µF AC125V or	6220353
	CERAMIC CAP. 0.0047µF AC125V	CCG2HZP0Z472
C506	CERAMIC CAP. 0.0047µF AC125V or	1
1	CERAMIC CAP. 0.0047µF AC125V	6220353 CCG2HZP0Z472
C507	CERAMIC CAP. 0.0047µF AC125V or	6220353
1	CERAMIC CAP, 0.0047µF AC125V	CCG2HZP0Z472
C508	CERAMIC CAP. 0.0047µF AC125V or	6220353
1	CERAMIC CAP, 0.0047µF AC125V	1220891
C509	ELECTROLYTIC CAP. 150µF/400V or	1220893
1	ELECTROLYTIC CAP. 150µF/400V or	1227020
1	ELECTROLYTIC CAP. 150µF/400V or	1222738
	ELECTROLYTIC CAP. 150µF/400V	CCD3AKP0B103
C510	CERAMIC CAP. 0.01µF/1KV or	6220358
	CERAMIC CAP. 0.01µF/1KV	1250222S
C513	MYLAR CAP. 0.0022µF/50V	12508235
C514	*MYLAR CAP, 0.082µF/50V	12B3222S
C515	CERAMIC CAP. 2200pF/50V YB	
C517	ELECTROLYTIC CAP, 470µF/10V	126B477S
C518	CERAMIC CAP, 0.001µF/1KV or	CCD3AKP0B102
	CERAMIC CAP, 0.001µF/1KV	6220574
C519	CERAMIC CAP. 56pF/50V SL	1270560S
C520	*MYLAR CAP. 0.1µF/400V or	CMA2HKD00104
	*MYLAR CAP, 0.1µF/400V or	CT2H104NC001
1	*MYLAR CAP, 0.1µF/400V	CT2H104MS009
C521	CERAMIC CAP. 0.0022µF/4KV or	CCN2HP0E222
	CERAMIC CAP. 0.0022µF/4KV	122Z011
C523	ELECTROLYTIC CAP. 470µF/10V	126B477S
C524	ELECTROLYTIC CAP. 47µF/10V	1268476S
C602	CERAMIC CAP, 470pF/1KV or	CCD3AKP0B471
	CERAMIC CAP. 470pF/1KV	6220487
C603	ELECTROLYTIC CAP. 100µF/160V	622Z737
C605	ELECTROLYTIC CAP. 47µF/160V or	122Z336
	ELECTROLYTIC CAP. 47µF/160V or	CE2CMZDDL470
1	ELECTROLYTIC CAP. 47µF/160V	CE2CMZNTL470
: : :	CERAMIC CAP, 1000pF/50V YB or	12B3102S
. ~~~	CERAMIC CAP. 1000pF/50V YB	3B42102T
C607	CERAMIC CAP. 1000pF/50V YB or	12B3102S
ا تعدد	CERAMIC CAP. 1000pF/50V YB	3842102T
C608	ELECTROLYTIC CAP. 4700µF/25V or	CE1EMZNTL472
1~~~	ELECTROLYTIC CAP. 4700µF/25V	626D478

Ref. No.	Description	Part No.
C609	ELECTROLYTIC CAP, 2200µF/25V or	CE1EMZNTL222
0009	ELECTROLYTIC CAP. 2200µF/25V	626D228
0010	ELECTROLYTIC CAP. 470µF/16V or	CE1CMZNTL471
C610	ELECTROLYTIC CAP. 470µF/16V	626C477
C611	CERAMIC CAP. 1000pF/50V YB or	12B3102S
Con	CERAMIC CAP, 1000pF/50V YB	3B42102T
	CERAMIC CAP. 1000pF/50V YB or	12B3102S
C612	CERAMIC CAP, 1000pF/50V YB	3B42102T
l	ELECTROLYTIC CAP. 4700µF/25V or	CE1EMZNTL472
C613	ELECTROLYTIC CAP. 4700µF/25V	626D478
	ELECTROLYTIC CAP, 470µF/25V or	CE1EMZNTL471
C614	ELECTROLYTIC CAP. 470µF/25V	626D477
	ELECTROLYTIC CAP, 330µF/10V	126B337S
C615	ELECTROLYTIC CAP. 470µF/16V or	CE1CMZNTL471
C616	ELECTROLYTIC CAP. 470µF/16V	626C477
0017	CERAMIC CAP. 1000pF/50V YB or	12B3102S
C617	CERAMIC CAP. 1000pF/50V YB	3B42102T
	DIODES	
D400	DIODE MTZ5 1BT	MTZ5.1BT
D102	DIODE 1SS176TPA7 or	1SS176TPA7
D103	DIODE 1SS133T	1\$\$133T
DICI	DIODE MTZ5.6BT	MTZ5.6B
D104	DIODE ERB44-08 L3	AER84408L300
D201	DIODE ERB44-08 L3	AERB4408L300
D203	DIODE 15S130T	1SS130T
D204	DIODE AERA15C2KFRB	QDNZ0ERA1502
D205	DIODE ERB44-06 L3	AERB4408L300
D206 D301	DIODE MTZ7.5BT	MT27.5BT
D301	DIODE MTZ9.1BT	MTZ9.1BT
D302	DIODE MTZ1261	MTZ12BT
D304	DIODE MTZ9.18T	MT29.1BT
D501	DIODE ERCO4-10 L3	GE: ZBERC0410
0502	DIODE ERC04-10 L3	QDDZ0ERC0410
D503	DIODE ERC04-10 L3	QDDZ0ERC0410
D504	DIODE ERC04-10 L3	QDDZ0ERC0410
D505	DIODE 1SS176TPA7 or	1SS176TPA7
1	DIODE ISS133T	1SS133T
0506	DIODE 1SS176TPA7 or	1SS176TPA7
	DIODE 1SS133T	1SS133T
D507	DIODE ERB44-06 L3	AERB4406L300
D508	DIODE ERB44-06 L3	AERB4406L300
D601	DIODE ERD38-06 L	AERD3806L000
D603	DIODE ERD32-02 L	AERD3202L000
D604	DIODE 1SS176TPA7 or	1SS176TPA7
1000	DIODE ISS133T	1SS133T
D605	DIODE ERD32-02 L	AERD3202L000
D606	DIODE 1SS176TPA7 or	1SS176TPA7
	DIODE 1SS133T	1SS133T
D607	DIODE 1SS176TPA7 or	1SS176TPA7
	DIODE 1SS133T	1SS133T
D608	DIODE 1SS176TPA7 or	1SS176TPA7
	DIODE 1SS133T	1SS133T
D609	DIODE 1SS176TPA7 or	1SS176TPA7
1	DIODE 1SS133T	1SS133T
D610	DIODE 1SS176TPA7 or	1SS176TPA7
	DIODE 1SS133T	1SS133T
D611	DIODE 1SS176TPA7 or	1SS176TPA7
1	DIODE 1SS133T	1SS133T
D612	DIODE 1SS130T	1SS130T
D613	DIODE MTZ6.88T	MTZ6.8BT

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Rel. No.	Description	Part No.
0614	DIODE R2M or	QDDZ00000R2M
,014	DIODE EQB01-150	AEOB01150000
0620	DIODE 1SS176TPA7 or	1SS176TPA7
JOE0	DIODE 1SS133T	1SS133T
0621	DIODE 1SS176TPA7 or	1SS176TPA7
J. J	DIODE ISS133T	1SS133T
	ics	
IC 1	IC AN5265	14LN160
IC101	IC µPD6326C	14DV727
IC202	IC LA7830	14LQ163
IC301	IC TA8759AN	GTA8759AN
	IC STK73907	GSTK73907000
IC501 🛆	PHOTO COUPLER PS2651 or	OPEZ00PS2651
10302 213	PHOTO COUPLER PC-113AB	OPE1000PC113
IC601	IC AN7812 or	AN7812
(OBU)	IC AN7812F	AN7812F
IC602	IC AN7818 or	AN7818
10002	IC AN7918F	AN7818F
1C603	IC AN7812 or	AN7812
10003	IC AN7812F	AN7812F
	COILS	
L201	POT TYPE COIL 4.7mH	117M957
1	POT TYPE COIL 47µH	117M511
L203	CASING COIL (R-Y, B-Y)	113M872
L301	CASING COIL (R-Y, B-Y)	113M872
L302	CASING COIL (PAL ADJ.)	113M855
L303	MICRO INDUCTOR 8.2µH or	2165829T
L304	MICRO INDUCTOR 8 2µH	21F2829T
L305	CASING COIL (BEL FILTER)	113M873
L305	MICRO INDUCTOR 47µH or	21654707
L300	MICRO INDUCTOR 47µH	21624701
L308	CASING COIL (FDENT)	113M871
L311	DELAY LINE or	113N852
[2311	DELAYLINE	LFB10V0SF001
L501 🛆		LLBG00ZMS008
100. 77	LINE FILTER	LLBG00ZBW007
L502 🗥		LLBG00ZMS008
1.302 715	LINEFILTER	LLBG00ZBW007
	POT TYPE COIL 47µH	117M511
L601	POT TYPE COIL 47µH	117M511
L602	TRANSISTORS	
	TR. 2SC1815GRTPE2(GR) or	2SC1815GRTPE2
0 1		2SC3331TNPAA
	TR. 2SC3331TNPAA(T) or	2SC3331UNPAA
1	TR. 2SC3331UNPAA(U) or	2SC1740STPQ
- [TR. 2SC1740S(O) (Z) or	2SC1740STPR
1	TR. 2SC1740S(R) (Z)	2SC2271D-AE-MF
Q201	TR. 2SC2271 AEMP(D) or	2SC2271E-AE-M
1	TR. 2SC2271AEMP(E) TRANSISTOR 2SD1397	Q2SD1397CA
Q202 Z	, , , , , , , , , , , , , , , , , , ,	2SA1318T-AA-NF
Q302	TR. 2SA1318AANP(T) or TR. 2SA1318AANP(U) or	2SA1318U-AA-NI
Ì		2SA933RZ
1	TR. 2SA933S(R) (Z) or	2SA933SZ
- 1	TR. 2SA933S(S) (Z)	2SA1318T-AA-N
Q303	TR. 2SA1318AANP(T) or	25A1318H-AA-N
Q303	TR. 2SA1318AANP(U) or	
Q303	TR. 2SA1318AANP(U) or TR. 2SA933S(R) (Z) or	2SA933RZ
Q303	TR. 2SA1318AANP(U) or	2SA933RZ 2SA933SZ
Q303	TR. 2SA1318AANP(U) or TR. 2SA933S(R) (Z) or	2SA933RZ

Ref. No.	Drawing No.	Description	Q'ty	Part No.
481	4	Frame (L)	1	8059-16-508
482	4	Sensor, P.C.B. (LM)	1	8059-16-301
483	4	Gear (L) Assembly, Lift (Consists of 484~486)	1	8059-16-314
484	4	Gear, Lift	1	8000-22-14
485	4	Arm; Lift	1	8000-22-11
486	4	Spring, LP	1	8000-22-45
487	- 4	Lever, Lift	1	8059-16-67
488	4	Soring, Lift Lever	1	8059-16-68
489	4	E-Ring S 2.5	1	9504-00-00
490	4	Screw, Sems, M2.6 x 7	1	9099-00-00
491	4	Sleeve, Guide	1	8000-22-24
498	4	Stay, Top	1	8000-22-65
499	4	Wire, End Sensor	1	8059-16-19
500	4	Angle, Rear	1 1	8059-16-09
501	4	Plate, Upper		8059-16-66
502	4	Shaft, Synchronize	11	8059-16-60
503	4	Gear (A), Synchronize	2	8059-16-17
504	4	E-Ring S 2.5	2	9504-00-00
505	4	Screw, Sems, M2.6 x 4	10	9096-00-00
506	4	Screw (For Camera), M2.6 x 3	2	9556-00-00
507	4	Screw (For Camera), M2.3 x 2.5	2	9991-00-00
508	4	Screw, C-Tight, M2.6 x 5	4	9192-00-00
531	3	Plate, RG Slide	1	8059-17-03
532	3	Spring, RG Slide	1	8059-17-11
533	3	Collar, RG Slide Plate	1	8059-17-10
534	3	Screw, Sems, M2 x 4	1	9077-00-00
535	3	Base, BG Slide	1	8059-17-09
536	3	Arm Semi Assembly, RG	1	8059-17-502
537	3	Washer, Polyslider, ø2.6 x ø6 x t0.5	1	9884-00-00
538	3	Arm, RG Actuate	1	8059-17-01
539	3	Washer, Polyslider, ø2.1 x ø5 x t0.5	1	9876-00-00
540	3	BG Actuator	1	8059-17-02

ELECTRICAL REPLACEMENT PARTS LIST [TV]

PRODUCT SAFETY NOTE: Products marked with a \triangle have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice of this service manual. Don't degrade the safety of the product through improper servicing.

GENERAL NOTE: "C.B.A." is abbreviation for "Printed Circuit Board Assembly". NOTE: Parts that not assigned part numbers (------) are not available.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	J±5%	Z +80/-20%
D±0.5%	K±10%	X440/-20%
F±1%	M±20%	P+100%
C +39/	N +30%	

MMA-78 C.B.A.

Ref. No.	Description	Part No.
	MMA-78 C.B.A. Consists of the following :	MMA-78
Δ	P.C.B.	BB6400F0100
	MAIN C.B.A.	
	CRT C.B.A.	
	EARPHONE C.B.A.	

MAIN C.B.A.

Ref. No.	Description	Part No.
	MAIN C.B.A.	·
	Consists of the following:	1
	CAPACITORS	
C 1	ELECTROLYTIC CAP. 1µF/50V	126F105S
C 2	SEMICONDUCTOR CAP, 0.0039µF,25V K	12Y2392S
C 3	ELECTROLYTIC CAP. 1µF/50V	126F105S
C 4	ELECTROLYTIC CAP. 10µF/50V	126F106S
Ç 5	ELECTROLYTIC CAP. 10µF/50V	126F106S
C 6	SEMICONDUCTOR CAP. 0.068µF/25V K	12Y2683\$
C 7	SEMICONDUCTOR CAP, 0.15µF/50VZ	1294154S
C 8	ELECTROLYTIC CAP. 470µF/16V or	CE1CMZNTL471
	ELECTROLYTIC CAP. 470µF/16V	626C477
C 9	ELECTROLYTIC CAP, 2200µF/25V or	CE1EMZNTL222
	ELECTROLYTIC CAP, 2200µF/25V	626D228
C 12	ELECTROLYTIC CAP. 470µF/16V or	CE1CMZNTL471
	ELECTROLYTIC CAP, 470µF/16V	626C477
C101	ELECTROLYTIC CAP, 10µF/50V	126F106S
C102	CERAMIC CAP. 0.01 µF/50V FZ or	12F3103S
	CERAMIC CAP, 0.01µF/50V FZ	3F45103S
C103	ELECTROLYTIC CAP. 10µF/50V	126F106S .
C104	CERAMIC CAP, 220pF/50V SL	1270221\$
C105	CERAMIC CAP. 220pF/50V SL	12702218
C106	CERAMIC CAP. 220pF/50V SL	1270221S
C201	CERAMIC CAP, 0.0022µF/1KV or	CCD3AKP0B222
	CERAMIC CAP, 0.0022µF/1KV	6220576
C202	CERAMIC CAP. 0.0022µF/1KV or	CCD3AKP0B222
	CERAMIC CAP, 0.0022uF/1KV	6220576

~Ref. No.	Description	Part No.
C203	P.P. CAP, 0.0068µF/1.6KV or	122Z285
	P.P. CAP, 0.0068µF/1.6KV	1220498
C205	ELECTROLYTIC CAP. 22µF/250V or	122Z345
	ELECTROLYTIC CAP. 22µF/250V or	CE2EMZDDL220
	ELECTROLYTIC CAP. 22µF/250V	CE2EMZNTL220
C206	ELECTROLYTIC CAP. 22µF/160V or	122Z334
	ELECTROLYTIC CAP. 22µF/160V or	GECGMZNTL220
	ELECTROLYTIC CAP. 22µF/160V	6220758
C208	CERAMIC CAP, 82pF/500V SL or	CCD2JKSSL820
	CERAMIC CAP. 82pF/500V SL	1222777
C209	ELECTROLYTIC CAP. 330µF/35V or	CE1GMZNTL331
	ELECTROLYTIC CAP, 330µF/35V	626E337
C210	*MYLAR CAP, 0.1µF/50V	1250104S
C211	*MYLAR CAP, 0.0012µF/50V	1250122S
C212	CERAMIC CAP, 47pF/50V SL	1270470S
C213	MYLAR CAP, 0.001µF/50V	1250102S
C214	ELECTROLYTIC CAP. 100µF/35V	126E107S
C215	MYLAR CAP. 0.1µF/50V	1250104S
C216	TANTAL CAP. 2.2µF/25V	122F225
C217	ELECTROLYTIC CAP. 10µF/50V	126F106S
C218	ELECTROLYTIC CAP. 2200µF/16V or	CE1CMZNTL222
	ELECTROLYTIC CAP. 2200µF/16V	626C228
C219	*MYLAR CAP. 0.18µF/50V	625U184
C220	P.P. CAP, 0.47µF/200V or	122Z256
	P.P. CAP. 0.47µF/200V	1220511
C221	ELECTROLYTIC CAP. 1µF/250V	CA2E010NC009
C226	ELECTROLYTIC CAP, 2200µF/16V or	CE1CMZNTL222
!	ELECTROLYTIC CAP. 2200µF/16V	62€C228
C227	ELECTROLYTIC CAP, 2.2µF/160V or	122Z330
	ELECTROLYTIC CAP. 2.2µF/160V or	CE2CMZDDL2R2
	ELECTROLYTIC CAP. 2.2µF/160V	CE2CMZNTL2R2
C228	ELECTROLYTIC CAP. 2.2µF/160V or	122 Z 330
	ELECTROLYTIC CAP. 2.2µF/160V or	CE2CMZDDL2R2
	ELECTROLYTIC CAP. 2.2µF/160V	CE2CMZNTL2R2
C229	CERAMIC CAP, 0.01 µF/50V FZ or	12F3103S
	CERAMIC CAP. 0.01µF/50V FZ	3F45103S

^{*}MYLAR is a registered trademark of E. J. Du Pont de Nemours and Company.

		Part No.
R 8015	CARBON RES. 1/5W J 3.3K Ω or	1324332T
	CARBON RES. 1/6W J 3.3K Ω or	132A332T
1.	CARBON RES. 14W J 3.3K Ω ℃	RCX4JATZ0332
R 8016	CARBON RES. 1/5W J 1.5K Ω or	1324152T
	CARBON RES. 1/6W J 1.5K Ω or	132A152T
	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 8501	CARBON RES. 1/5W J 3.3K Ω or	1324332T
	CARBON RES. 1/6W J 3.3K Ω or	132A332T
	CARBON RES. 1/4W J 3.3K Ω	RCX4JATZ0332
R 8502	CARBON RES. 1/5W J 4.7K Ω or	1324472T
ĺ	CARBON RES. 1/6W J 4.7K Ω or CARBON RES. 1/4W J 4.7K Ω	132A472T
R 8503	CARBON RES. 1/5W J 2.7K Ω or	RCX4JATZ0472
1	CARBON RES. 1/6W J 2.7K Ω or	13242721
1	CARBON RES. 14W J 2.7K Ω	132A272T
R 8504	CARBON RES. 1/5W J 3.9K Ω or	RCX4JATZ0272 1324392T
	CARBON RES. 1/6W J 3.9K Ω or	132A392T
1	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 8505	CARBON RES. 1/5W J 2.2K Ω or	1324222T
1	CARBON RES. 1/6W J 2.2K Ω or	132A222T
]	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 8506	- CARBON RES. 1/5W J 4.7K Ω or	1324472T
	CARBON RES. 1/6W J 4.7K Ω or	132A472T
	CARBON RES. 1/4W J 4,7K Ω	RCX4JATZ0472
R 8507	CARBON RES. 1/5W J 1.5K Ω or	1324152T
	CARBON RES. 1/6W J 1.5K \O or	132A152T
1	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 8508	CARBON RES. 1/5W J 4.7K Ω or	1324472T
l	CARBON RES. 1/6W J 4.7K Ω or	132A472T
İ	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 8509	CARBON RES. 1/5W J 470 Ω or	1324471T
	CARBON RES. 1/6W J 470 Ω or	132A471T
	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
1	CARBON RES. 1/5W J 10K Ω	1324103T
	VOLUMES	
VR2001	CARBON P.O.T. 100K Ω or	238A402Y
	CARBON P.O.T. 100K Ω or	238N497Y
	CARBON P.O.T. 100K Ω	238A427Y
VR8002	CARBON P.O.T. 2.2K Ω or	238A392Y
	CARBON P.O.T. 2K Ω or	238N490Y
	CARBON P.O.T. 2K Ω	238A420Y
	MISCELLANEOUS	
2L-041	SCREW TAPPING BIND HEAD M3X10	DBM13100
A- 19	JACK BOARD K2870RA	0VM201044
B2- 3	HEATSINK IC VD40308/K1000U6	6S50527
B2- 21	PLATE GROUND K2870RA	0VM403988
A-A	WIRE070/WHI/AWG26#1007	0VE400150
B-B	WIRE070/WHI/AWG26#1007	0VE400150
C-C	WIRE 120/RED/AWG26#1007	0VE400367
D-D	WIRE 050/BLU/AWG 26#1007	0VE400368
JK7501	RCA JACK(WHITE) JPJ1023-01-0300	1780076
JK7502	BNC JACK HXC0330-01-010	1780271
JK7503	ANT JACK TCR-RCA-2V or	1780217
TD7604	ANT JACK HXC0421-01-500	1780292
TP7501	TEST PIN RT-01T-1.3B	1720688
TP7502	TEST PINRT-01T-1.3B	1720688
TP8001	TEST PINRT-01T-1.3B	1720688
TU7001	TUNER UNIT TUFNF3H-292P1	1813629
X 6002	X'TAL 32KHz (10PPM) or	1811350
	X'TAL 32KHz (10PPM)	1811351

Ref. No.	Description	Part No.
X 8501 ¹	XTAL 17.734476MHz	FXD176TFS001
X 7001	CERAMIC RESONATOR 500KHZ CSB500E	1810414
X 6001	CERALOCK 4.19MHz	1812885
	WIRE 160/BLA/AWG20#1007	WX1K2870-006
	WIRE 080/ORE/AWG26#1007	WX3301A65F09
	WIRE 055/PUR/AWG26#1007	WX3701A64F06
	WIRE 135/WHI/AWG26#1007	WX3901A64F14
	WIRE 150/WHI/AWG26#3265	WX3901664F16
	NON WOVEN FABRICS S2291	0VM401388
	HEAT SINK ASS'Y JP380/2870/MCV	0VSA04935
	RCA PLUG CORD	5750117
	DIODE 1SS254 or	A1SS254****
	DIODE GMB01B	GMB01B

MCV-B C.B.A. (Cass. SW. / Sensor Conn.)

Ref. No.	Description	Part No.
	MCV-B C.B.A.	
	Consists of the following:	
CN6004	STRAIGHT PIN CONNECTOR 6P	1770626
	IL-SDA- 6P-S2T2	

MCV-C C.B.A. (Drum Deck Conn.)

Ref. No.	Description	Part No.
	MCV-C C.B.A.	
	Consists of the following:	1
CN2001	ANGLE SOCKET CONNECTOR 9P IL-SDA- 9S-S2L2	1770604

MCV-D C.B.A. (Head Amp / Audio)

Ref. No.	Description	Part No.
	MCV-D C.B.A.	
	Consists of the following:	
	CAPACITORS	
C 3501	CERAMIC CAP, Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01µF/16V	1220842T
C 3502	CERAMIC CAP, SL J 68pF/50V	3S41680T
C 3503	CERAMIC CAP, BJ 150pF/50V	3B41151T
C 3504	CERAMIC CAP, SL J 47pF/50V	3S41470T
C 3505	CERAMIC CAP, SL J 10pF/50V	3S41100T
C 3506	CERAMIC CAP, F Z 0.022µF/25V or	122Z122T
	CERAMIC CAP. F Z 0.022µF/25V	1220843T
C 3507	CERAMIC CAP. Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01µF/16V	1220842T
C 3510	CERAMIC CAP. SL J 33pF/50V	3S41330T
C 3511	CERAMIC CAP. SL J 56pF/50V	3S41560T
C 3512	CERAMIC CAP. SLJ 18pF/50V	3S41180T
C 3513	CERAMIC CAP, SLJ 18pF/50V	3S41180T
C 3514	CERAMIC CAP, F Z 0.022µF/25V or	12271227
	CERAMIC CAP. F Z 0.022µF/25V	1220843T
C 3515	ELECTROLYTIC CAP. 100µF/6.3V M H7	526R107S
3516	ELECTROLYTIC CAP. 0.22µF/50V M H7	526W224S
C 8 517 - [CERAMIC CAP Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01 µF/16V	1220842T
	CERAMIC CAP, F Z 0.1 µF/50V	3F40104T
3520	CERAMIC CAP, F Z 0,1 µF/50V	3F40104T
3522	CERAMIC CAP. Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01µF/16V	1220842T
	CERAMIC CAP. Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01µF/16V	1220842T

Ref. No.	Paradian	Part No.
C 3524	Description CERAMIC CAP, SL J 47pF/50V	3S41470T
C 3529	CERAMIC CAP. Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP. F Z 0.01 µF/16V	1220842T
C 3530	CERAMIC CAP, SL J 22pF/50V	3S41220T
C 3531	SEMICONDUCTOR CAP, SR M 0.1µF/12V	12X1104
C 4001	SEMICONDUCTOR CAP, SR K 0.0018µF/25V	12Y2182S
C 4002	SEMICONDUCTOR CAP, SR K 0.0015µF/25V	12Y2152S
C 4004	ELECTROLYTIC CAP. 10HF/16VM	126C106S
C 4005	SEMICONDUCTOR CAP, SRK 0.01 µF/25V	12Y2103S
C 4006	SEMICONDUCTOR CAP, SR K 0.1µF/25V	12Y2104S
C 4008	ELECTROLYTIC CAP, 22µF/16V M	126C226S
C 4009	CERAMIC CAP, X K 0.0015µF/16V	3X4C152T
C 4010	SEMICONDUCTOR CAP, SR K 0.1 µF/25V	12Y2104S
C 4011	ELECTROLYTIC CAP. 10µF/16V M	126C106S
C 4012	SEMICONDUCTOR CAP, SR K 0.0068µF/25V	12Y2682S
C 4013	SEMICONDUCTOR CAP, SR K 0.022µF/25V	12Y2223S
C 4014	ELECTROLYTIC CAP, 4.7μF/25V M	126D475S
C 4015	ELECTROLYTIC CAP. 22µF/16V M	126C226S
C 4016	CERAMIC CAP, B J 220pF/50V	3841221T
C 4017	MYLAR CAP. 0.047µF/100V J	6255473S
C 4018	ELECTROLYTIC CAP. 22µF/16V M	126C226S
C 4019	SEMICONDUCTOR CAP. SR K 0.01 µF/25V	12Y2103S
C 4020	SEMICONDUCTOR CAP. SR K 0.01 µF/25V	12Y2103S
C 4023	ELECTROLYTIC CAP. 47µF/16V M	126C476S
C 4024	CERAMIC CAP. X K 0.0012µF/16V	3X4C122T
C 4026	ELECTROLYTIC CAP. 47µF/16V M	126C476S
	CONNECTORS	
CN3501	FLOATING SOCKET CONNECTOR 10P	JCTKG10TGH0F
]	TKC-M10X-A1	
CN3502	ANGLE SOCKET CONNECTOR 17P	1700762
1	IL-SDD-17S-S2L2-F	JCTKG14TGH0F
CN3503	FLOATING SOCKET CONNECTOR 14P	JC IKG 14 I GHOP
	TKC-M14X-A1	1770601
CN3504	ANGLE SOCKET CONNECTOR 6P	1770001
1	IL-SDA- 6S-S2L2	JCTKG10TGH0F
CN4003	FLOATING SOCKET CONNECTOR 10P TKC M10X-A1	301KG101G16
	ICS	
100504		GLA7370****
IC3501	IC LA7370 IC AUDIO LA7282	QSZLA0SSY003
IC4001	COILS	14022
1	INDUCTOR 82µH-K-26T or	LLAXKATTU820
L 3501	INDUCTOR 82µH-K-26T	LLAXKDTKA820
	INDUCTOR 180µH-K-26T or	LLAXKATTU181
L 3502	INDUCTOR 180µH-K-26T	LLAXKDTKA181
	INDUCTOR 56µH-K-26T or	LLAXKATTU560
L 3503	INDUCTOR 56µH-K-26T	LLAXKDTKA560
. 0504	INDUCTOR 56µH-K-26T or	LLAXKATTU560
L 3504	INDUCTOR 56µH-K-26T	LLAXKDTKA560
LAFAE	INDUCTOR 33µH-K-26T or	LLAXKATTU330
L 3505	INDUCTOR 33µH-K-26T	LLAXKDTKA330
L 3506	INDUCTOR 22µH-K-26T or	LLAXKATTU220
1 3300	INDUCTOR 22µH-K-26T	LLAXKDTKA220
L 3507	INDUCTOR 56µH-K-26T or	LLAXKATTU560
L 350/	INDUCTOR 56µH-K-26T	LLAXKDTKA560
	INDUCTOR 30µTH-K-20T	LLAXKATTU220
L 3508	INDUCTOR 22µH-K-26T	LLAXKDTKA220
1.		LLAXKATTU101
L 3509	INDUCTOR 100 µH·K-26T or	II AXKDTKA101
	INDUCTOR 100µH-K-26T	LLAXKDIKATOT
L		

Ref. No.	Description	Part No.
3510	INDUCTOR 100µH-K-26T or	LLAXKATTU101
	INDUCTOR 100µH-K-26T	LLAXKDTKA101
.3511	INDUCTOR 100µH-K-26T or	LLAXKATTU101
	INDUCTOR 100µH-K-26T	LLAXKDTKA101
4001	INDUCTOR 18mH or	117M500
	INDUCTOR 18mH	117D498
4002	INDUCTOR 100µH-K-26T or	LLAXKATTU101
	INDUCTOR 100µH-K-26T	LLAXKDTKA101
	TRANSISTORS	
Q 3501	TRANSISTOR 2SC2058(P) or	C2058PZ
	TRANSISTOR 2SC2058(Q) or	C2058OZ
	TRANSISTOR 2SC2839(E) or	C2839EZ
	TRANSISTOR 2SC2839(F)	C2839FZ
Q 3503	TRANSISTOR 2SC1740(Q) or	C1740OZ
	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ C2058PZ
Q 3504	TRANSISTOR 2SC2058(P) or	
	TRANSISTOR 2SC2058(Q) or	C2058QZ
	TRANSISTOR 2SC2839(E) or	C2839EZ
	TRANSISTOR 2SC2839(F)	C2839FZ
Q 3505	TRANSISTOR 2SC2058(P) or	C2058PZ
	TRANSISTOR 2SC2058(Q) or	C2058QZ
	TRANSISTOR 2SC2839(E) or	C2839EZ
	TRANSISTOR 2SC2839(F)	C2839FZ
Q 3506	RES. BUILT-IN TRANSISTOR DTA124XS	A124XSZ
Q 4001	TRANSISTOR 2SC1740(Q) or	C1740QZ
	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
Q 4002	TRANSISTOR 2SA933(Q) or	A933GZ
	TRANSISTOR 2SA933(R) or	A933FZ
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	A608SFZ
Q 4003	RES. BUILT IN TRANSISTOR DTC124ES or	C124ESZ
3 -000	RES BUILT IN TRANSISTOR 25C3400	C3400Z
	RESISTORS	
R 3205	CARBON RES. 1/5W J 820 Ω or	1324821T
11,0200	CARBON RES. 1/6W J 820 Ω or	132A821T
!	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R 3501	CARBON RES. 1/5W J 820 Ω or	1324821T
110001	CARBON RES. 1/6W J 820 Ω or	132A821T
1	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R 3502	CARBON RES. 1/5W J 1.5K Ω or	1324152T
	CARBON RES. 1/6W J 1.5K Ω or	132A152T
1	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 3503	CARBON RES. 1/5W J 3.9K Ω or	1324392T
1	CARBON RES. 1/6W J 3.9K Ω or	132A392T
1	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 3504	CARBON RES. 1/5W J B.2K Ω or	1324822T
11.3304	CARBON RES. 1/6W J 8.2K Ω or	132A822T
	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ082
R 3505	CARBON RES. 1/5W J 820 Ω or	1324821T
1 3303	CARBON RES. 1/6W J 820 Ω or	132A821T
1	CARBON RES. 1/4W J 820 Ω	RCX4JATZ082
R 3506	CARBON RES. 1/5W J 6.8K Ω or	1324682T
H 3506	CARBON RES. 1/6W J 6.8K 12 or	132A682T
1	LOWHDOW MED. INDIA 9 0'0V 75 OL	1
	CARBON RES. 1/4W J 6.8K Ω	RCX4JATZ068

Ref. No.	Description	Part No.	Ref. No.	Description
R 104	CHIP RES. 1/10W J 100K Ω	134F104C		MISCELLAN
R 106	CHIP RES. 1/10W J 0 Ω	134F000C	CF 181	CERAMIC FILTER 4.5MHz or
R 107	CHIP RES. 1/10W J 8.2K Ω	134F822C		CERAMIC FILTER 4.5MHz
R 108	CHIP RES. 1/10W J 4.7K Ω	134F472C	DL 101	COMB FILTER 4.433619MHz
R 109	CHIP RES. 1/10W J 390 Ω	134F391C	DL 151	COMB FILTER ADL-FN1344F
R 110	CHIP RES. 1/10W J 150 Ω	134F151C	T 51	L.P.F. 3MHz ELB-4M031N
R111	CHIP RÉS. 1/10W J 470 Ω	134F471C	T 101	LC FILTER ELB4W009N
R 112	CHIP RES. 1/10W J 270 Ω	134F271C	TP 51	TEST PIN RT-08T-1.3BT
R113	CHIP RES. 1/10W J 1.5K Ω	134F152C	TP 52	TEST PIN RT-08T-1.3BT
R114	CHIP RES. 1/10W J 5.6K Ω	134F562C	TP 53	TEST PIN RT-08T-1.38T
R 115	CHIP RES. 1/10W J 2.7K Ω *	134F272C	TP 54	TEST PINRT-08T-1.3BT
R116	CHIP RES. 1/10W J 1.8K Ω	134F182C	TP 181	TEST PIN RT-08T-1,3BT
R 117	CHIP RES. 1/10W J 1K Ω	134F102C	X 101	X'TAL 4,433619MHz or
R 118	CHIP RES. 1/10W J 22K Ω	134F223C	1 1 1	XTAL 4.433619MHz
R 119	CHIP RES. 1/10W J 1.2K Ω	134F122C		PIN HEADER ANGLE 22P 60308
R 120	CHIP RES. 1/10W J 1K Ω	134F102C		
R 121	CHIP RES. 1/10W J 1K Ω	134F102C	ł	
R 123	CHIP RES. 1/10W-J 3.3K Ω	134F332C		
R 124	CHIP RES. 1/10W J 1,8K Ω	134F182C		
R 125	CHIP RES. 1/10W J 0 Ω	134F000C		
R 126	CHIP RES. 1/10W J 1K Ω	134F102C	,	
R 127	CHIP RES. 1/10W J 2.2K Ω	134F222C		
R 128	CHIP RES. 1/10W J 1K Ω	134F102C		
R 129	CHIP RES. 1/10W J 680 Ω	134F681C		
R 130	CHIP RES. 1/10W J 47K Ω	134F473C		
R141	CHIP RES. 1/10W J 470 Ω	134F471C		
R 142	CHIP RES. 1/10W J 2.2K Ω	134F222C		
R143	CHIP RES. 1/10W J 220 Ω	134F221C	•	
R 144	CHIP RES. 1/10W J 0 Ω	134F000C	•	
R 151	CHIP RES. 1/10W J 270 Ω	134F271C		
R 152	CHIP RES. 1/10W J 3.9K Ω	134F392C		
R 153	CHIP RES, 1/10W J 1,8K Ω	134F182C		
R 154	CHIP RES. 1/10W J 4.7K Ω	134F472C		
R 156	CHIP RES. 1/10W J 0 Ω	134F000C		
R 181	CHIP RES. 1/10W J 15K Ω	134F153C		
R 182	CHIP RES. 1/10W J 1K Ω	134F102C		
R 183	CHIP RES. 1/10W J 10K Ω	134F103C		
R 184	CHIP RES, 1/10W J 1K Ω	134F102C		
R 185	CHIP RES. 1/10W J 5.6K Ω	134F562C		
R186	CHIP RES. 1/10W J 1K Ω	134F102C		
R 187	CHIP RES. 1/10W J 560 Ω	134F561C		
R 189	CHIP RES. 1/10W J 1K Ω	134F102C	1	
R 190	CHIP RES. 1/10W J 3.3K Ω	134F332C		*
R 191	CARBON RES. 1/5W J 560K Ω or	1324564		
	CARBON RES. 1/6W J 560K Ω or	132A564		
J 113	CARBON RES. 1/4W J 560K Ω CARBON RES. 1/5W J 22K Ω or	RCX4JZPZ0564	1	
3113	CARBON RES. 1/5W J 22K Ω or CARBON RES. 1/5W J 22K Ω or	1324223T]	
	CARBON RES. 1/4W J 22K Ω	132A223T		
!		RCX4JATZ0223		
VR 51	VOLUMES P.O.T. 5KΩ B	120 1700		
VR 52	P.O.T. 5KΩ B P.O.T. 5KΩ B	138J780		
VR 52	P.O.T. 2KΩ B or	138J780		
***************************************	P.O.T. 2KΩ B P.O.T. 2KΩ B	138J778 138N778	}	
VR 54	SEMI FIXED RES. 500 Ω B or	138J776	İ	
	SEMI FIXED RES. 500 Ω B or	138J776 138N776	ŀ	
	P.O.T. 500 Ω B	1380712	İ	
VR 55	P.O.T. 5ΚΩ Β	1380712		
~		1300700	 	
		. ,	1	
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Ref. No.	Description	Part No.
	MISCELLANEOUS	
CF 181	CERAMIC FILTER 4.5MHz or	1810359
	CERAMIC FILTER 4.5MHz	1813358
DL 101	COMB FILTER 4.433619MHz	1813522
DL 151	COMB FILTER ADL-FN1344F	1813025
T 51	L.P.F. 3MHz ELB-4M031N	1810805
T 101	LC FILTER ELB4W009N	1813477
TP 51	TEST PIN RT-08T-1.3BT	1770482
TP 52	TEST PIN RT-08T-1.3BT	1770482
TP 53	TEST PIN RT-08T-1.38T	1770482
TP 54	TEST PIN RT-08T-1.3BT	1770482
TP 181	TEST PIN RT-08T-1.3BT	1770482
X 101	X'TAL 4,433619MHz or	1811366
	X'TAL 4,433619MHz	1811388
	PIN HEADER ANGLE 22P 6030B-1-22Z027-T	5700320

SW5509 PUSH SWITCH EVO-336 0SR or PUSH SWITCH EVO-336 0SR or PUSH SWITCH EVO-336 0SR or PUSH SWITCH EVO-335 0SR or S522212Y	Ref. No	- Description	Part No.
Second S	SW5508	PUSH SWITCH SKOHV00059 PUSH SWITCH EVO-335 05R or PUSH SWITCH SKOHV00059	5622212Y SST0101AL003 5622212Y
B2- 6 HOLDER LE.D. KIBZUA 0VM402894 PRSSS01 REMOTE SENSOR UNIT SFN-R0011 or REMOTE CONTROL UNIT HC-278N SEITEC REMOTE SENSOR EXCLUSIVE or KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR		PUSH SWITCH SKOHV00059 PUSH SWITCH EVO-335 05R or	SST0101AL003 5622212Y
AREMOTE SENSOR UNIT SFN-R0011 or REMOTE CONTROL UNIT HC-278N SEITEC REMOTE SENSOR EXCLUSIVE or KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSHI REMOTE SENSOR EXCLUSIVE OR KODENSH		MISCELLANEOUS	100.0101742003
	RS5501	HOLDER L.E.D. K1870UA REMOTE SENSOR UNIT SFN-R0011 or REMOTE CONTROL UNIT HC-278N SEITEC REMOTE SENSOR EXCLUSIVE or	1812501 USESJRSKK008

MSV C.B.A.

1-11-	I. No.	Description		Part N	
- 1	i	MSV C.B.A. JP380/2870		0VSA04957	<u>. </u>
1		Consists of the following:		010/0495/	1
	Δ.	P.C.B.(-3) VIDEO		1614927	į
C 51		CAPACITORS		1.41.4527	
C 52	- 1	CHIP CERAMIC CAP. SLJ 100pF/50V		1270101C	
C 52	ſ	CHIP CERAMIC CAP. SLJ 220pF/50V		1270221C	ı
C 54	- 1	CHIP CERAMIC CAP. FZ 0.047µF/50V	ı	12F3473C	- 1
C 55	- 11	CHIP CERAMIC CAP, SI C SPEROV	- 1	1270509C	- 1
C 56	- 10	HIP CERAMIC CAP SL LOODS EAU	- 1	1270391C	
C 57	- 14	HIP CERAMIC CAP, SL J 330F/50V	- 1	1270330C	ł
C 58	- 10	HIP CERAMIC CAP, SL. I 150E/60V	- 1	1270150C	- [
C 59	12	LECTROLYTIC CAP 0.47 (FROV. 14.10)		126X474S	
C 50	ĮΨ	HIP CERAMIC CAP, SI JAZOFIKOV	- 1	270470C	
C 61	JC	HIP CERAMIC CAP, SL J 1800EKOV		270181C	
C 62	15	LECTROLYTIC CAP 2 211F/50V M NO		26X225S	
C 63	150	ECTHOLYTIC CAP 2 2UF KNV II		26F225S	
C 64	l Fr	ECTROLYTIC CAP, 0.47/JF/50V M		26F474S	
C 66	Jur	MP CERAMIC CAP, SL J 150E/50V	- 1	270150C	- 1
C 67	ICF	MP CERAMIC CAP, SL J 820E/50V	- 1	70820C	
C 68	ICH	IP CERAMIC CAP. SLJ 47pF/50V		70470C	
C 69	JCH	IP CERAMIC CAP, SL J 220F/KOV	- 1	70220C	
C 70	CH	IP CERAMIC CAP, SL J R20F/50V		70820C	
C 71	CH	P CERAMIC CAP, St. J. 220E/KOV	- 1	70220C	- 1
C 72	JELLE	CTROLYTIC CAP, 111F/50V-M		F105S	
C /2 C 73	CH	P CERAMIC CAP, F Z 0.01 uF/50V		3103C	
C 73 C 74	CHI	P CERAMIC CAP, F Z 0.01 (FISOV		3103C	
	ELE	CTROLYTIC CAP. 4.7uF/25V M		D475S	
275	ELE	CTROLYTIC CAP 10 ENEVAL		D475S C106S	1
ىر 76	CHIP	CERAMIC CAP, F Z 0 047 (FSOV	- (
	Jerre	THOLYTIC CAP, 100 FREVIA		3473C	1
78	FLEC	TROLYTIC CAP, 470F46 3V44		C106S	1
79	CHIP	CERAMIC CAP, B K 0 068 JEMEN		M76S	1
80	CHIP	CERAMIC CAP F Z D D1E & DV		683C	1
81	CHIP	CERAMIC CAP, F.Z.O.O.U.E.KOV		103C	!
84	CLEC	HOLYTIC CAP 47/1F/6 21/14	126A	103C	1
86	FLFC	ROLYTIC CAP 2 211F/50VA			1
87	FIFC	ROLYTIC CAP. 2 20 FASOVAL	126F;		
88	CHIP	CERAMIC CAP. F Z 0.01µF/50V	126F		l
89	ELEC	TROLYTIC CAP. 0.47µF/50V M	12F31		
90	ELEC	MOLYTIC CAP. 10 P. 716V M	126F4	_	l
			126C1	106S	

ו ר	Ref. No.].		
-J	C 92	Description		Part No.
	C 94	ELECTROLYTIC CAP. 10µF/16V M	120	C106S
	Ö 101	CHIP CERAMIC CAP. B K 0.068µF/1	ev i	36683C
	C 102	CHIP CERAMIC CAP, F Z 0.01µF/50 ELECTROLYTIC CAP, 1µF/50V M		3103C
	C 103	CHIP CERAMIC CAR DUCA	126	F105S
	104	CHIP CERAMIC CAP, B K 0.01µF/50' CHIP CERAMIC CAP, SL J 39pF/50V	V 12B	3103C
	105	CHIP CERAMIC CAP, SL J 100pF/50V		0390C
	106	ELECTROLYTIC CAP. 47µF/6.3V M	1	0101C
	100	CHIP CERAMIC CAP SL LINGEROU		1476S
	109	CHIP CERAMIC CAP F 70 01 1 E KOV	1	1101C
	. 10	CHIP CERAMIC CAP, F Z 0.01 (FACO)		103C
, ,	· 11	PRIP CERAMIC CAP, F.7.0.01 (EKOV.		103C
	112 10	HIP CERAMIC CAP RK 0 047. Ency	/ 12F3	
	113 10	HIP CERAMIC CAP, FZ 0.01 UF/50V	12B2	
, ,	عا در،	LECTHOLYTIC CAP 111F-50V-14-117	526W	
	טן פיי	HIP CERAMIC CAP, B K 0 01 (FASOV)	12831	
CI	110 15	LECTROLYTIC CAP 1/1F/50V M	126F1	
Ci	17 E	LECTROLYTIC CAP 2 2UF KOV II	126F2	_
Ci	, ,	HIP CERAMIC CAP. B K 0.022µF/50V	12B32	
Ci	20 101	HP CERAMIC CAP. F Z 0.01 µF/50V	12F310	
C 1	21 (1	IP CERAMIC CAP. FZ 0.01 µF/50V	12F310	,
C 12	23 CH	IIP CERAMIC CAP. B K 0.047µF/25V IIP CERAMIC CAP. SL J 150pF/50V	128247	
C 12		IIP CERAMIC CAP. SLJ 200pF/50V	127015	
C 12	JUH	IP CERAMIC CAP SI 12200E KOV	127020	
C 12	o ICH	IP CERAMIC CAP, F 7 0 01 (F/KOV	127022	
C12	/ ICH	P CERAMIC CAP E ZA MUERAU	12F3103	
C 13	∠ CHI	P CERAMIC CAP F 7 0 0470 F 8017	12F3103	
C 13	, ICHI	PUERAMIC CAP, F 7 D D111E KD11	12F3473	
C 141	CHE	P CERAMIC CAP F 7 0 0111 E E 017	12F3103	- 1
C 151	JOHII	CERAMIC CAP FZ 0 01 E E 017	12F3103	
C 152	CHI	CERAMIC CAP, F Z 0 01 UE SOV	12F3103	
C 181	CHIE	CERAMIC CAP, B K 0.022UE/SOV	12B32230	i i
C 182	ELEC	CTROLYTIC CAP. 10µF/16V M H7	526T106S	
C 183	PIO	TROLYTIC CAP. 10µF/16V M	126C106S	
C184	FIEC	AP. 0.082µF/100V J	2231823	- 1
C 185	CHIP	TROLYTIC CAP. 0.1µF/50V M H7	526W1048	3
C 188	CHIP	CERAMIC CAP. F Z 0.01µF/50V CERAMIC CAP. F Z 0.01µF/50V	12F3103C	
C 189	CHIP	CERAMIC CAP, F Z 0.01µF/50V	12F3103C	
C 191	CHIP	CERAMIC CAP, F.Z. 0.01µF/50V	12F3103C	
C 192	CERA	MIC CAP, BJ 100pF/50V	12F3103C	- 1
		DIODES	3B11101	
D 51	DIODE	1SS254 or	16.0	
1	DIODE	GMB01B	A1SS254T7	7**
D 102	DIODE	1SS254 or	GMB01BT	
1	DIODE	GMB01B	A155254T7	7**
D 151	DIODE	1SS254 or	GMB01BT	
1_	DIODE	GMB01B	A1SS254T7	7**
D 181	DIODE :	SS254 or	GMB01BT	
	DIODE	SMB01B :	A1SS254**	***
100	T.	ICS ICS	GMB01B	
IC 51	IC LA732	3	GLA7323***	
IC 52	IC LC899	2	14LQ489	**
IC 53	VOLTAG	EREGULATOR IC AN78MOSF or	AN78MOSE	
	POLIAG	E HEGUI ATOR IC LIDOZOMOGUE	78MOSHF	
IC 101	VOLIAG	E REGULATOR IC N. ILI 701 JOSE 1	14L0238	- 1
IC 101	IN CURRO	MA LA7333	GLA7333***	
	IC AN636	3 .	GAN6368***	
	<u> </u>			1

Ref. No.	Description	Part No.
	COILS	114001
. 51	INDUCTOR 68µH-K-26T or	LLAXKATTU680
	INDUCTOR 68µH-K-26T	LLAXKDTKA680
. 52	INDUCTOR 68µH-K-26T or	LLAXKATTU680
	INDUCTOR 68µH-K-26T	LLAXKDTKA680
. 53	INDUCTOR 100µH-K-26T or	LLAXKATTU101
	INDUCTOR 100µH-K-26T	LLAXKDTKA101
. 57	INDUCTOR 47µH-K-26T or	LLAXKATTU470
	INDUCTOR 47µH-K-26T	LLAXKDTKA470
101	INDUCTOR 18µH-K-26T or	LLAXKATTU180
	INDUCTOR 18µH-K-26T	LLAXKDTKA180
. 102	INDUCTOR 3.9µH-K-26T or	LLAXKATTU3R9
	MDUCTOR 3.9µH-K-26T	LLAXKDTKA3R9
103	MICRO INDUCTOR 680µH-K	2162681
105	INDUCTOR 330µH-K-26T	LLAXKDTKA331
106	MICRO INDUCTOR 680µH-K-5FT or	21626815
	INDUCTOR 680µH-K-5FT	LLARKBSFS681
. 107	INDUCTOR 15µH-K-26T or	LLAXKATTU150
		LLAXKDTKA150
181	INDUCTOR 15µH-K-26T COIL 5mH or	113M747
. • .	1	1130747
	COIL 5mH TRANSISTORS	1130747
51	TRANSISTOR 2SA933(Q) or	A933OZ
٠,	TRANSISTOR 2SA933(R) or	A933RZ
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	A608SFZ
52	TRANSISTOR 2SC1740(Q) or	C174007
~-	TRANSISTOR 2SC1740(Q) or	C17400Z
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
53	TRANSISTOR 2SC1740(Q) or	C1740GZ
•	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
54		A9330Z
.	TRANSISTOR 2SA933(Q) or	A933UZ A933RZ
	TRANSISTOR 2SA933(R) or	
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	A608SFZ
55	TRANSISTOR 2SC1740(Q) or	C17400Z
	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
56	TRANSISTOR 2SC1740(Q) or	C1740QZ
	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
101	TRANSISTOR 2SC1740(Q) or	C1740QZ
	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SF7
102	TRANSISTOR 2SC2058(P) or	C2058PZ
	TRANSISTOR 2SC2058(Q) or	
	TRANSISTOR 2SC2839(E) or	C2058QZ
	TRANSISTOR 2SC2839(F)	C2839EZ
103	TRANSISTOR 200-2-12-12	C2839FZ
103	TRANSISTOR 2SC1740(Q) or	C1740OZ
	TRANSISTOR 2SC1740(R) or	C1740RZ
1	TRANSISTOR 2SC536SP(E) or	C536SEZ
- 1	TRANSISTOR 2SC536SP(F)	C536SFZ
- 1		

Ref. No.	Description	Part No.
Q 104	TRANSISTOR 2SC1740(Q) or	C1740OZ
	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
Q 107	TRANSISTOR 2SC2058(P) or	C2058PZ
0.107	TRANSISTOR 2SC2058(Q) or	C2058QZ
	TRANSISTOR 2SC2839(E) or	C2839EZ
	TRANSISTOR 2SC2839(F)	C2839EZ
Q 151	TRANSISTOR 2SC2058(P) or	C2058PZ
U 151	TRANSISTOR 2SC2058(Q) or	C2058QZ
	TRANSISTOR 2SC2839(E) or	C2839F7
	TRANSISTOR 2SC2839(F)	C2839FZ
QR 53	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
Qn 33	RES. BUILT-IN TRANSISTOR 25C3400	C3400Z
QR 54	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
UR 34	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
QR 57	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
un si	RES. BUILT-IN TRANSISTOR 2SC3400	C34007
OR 151	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
OR 131	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
QR 181	RES. BUILT-IN TRANSISTOR DTC144WS	C144WSZ
QR 182	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
QH 102	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
OR 183	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
211103	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
	RESISTORS	1004002
R 51	CHIP RES. 1/10W J 1K Ω	134F102C
R 52	CHIP RES. 1/10W J 1.2K Ω	134F122C
R 53	CHIP RES. 1/10W J 2.7K Ω	134F272C
R 54	CHIP RES. 1/10W J 1.1K Ω	134F112C
R 55	CHIP RES. 1/10W J 4 7K Ω	134F472C
R 56	CHIP RES. 1-10W J 8.2K Ω	134F822C
R 57	CHIP RES. 1/10W J 2.7K Ω	134F272C
R 58	CHIP RES. 1/10W J 560 Ω	134F561C
R 59	CHIP RES. 1/10W J 3.3K Ω	134F332C
R 60	CHIP RES. 1/10W J 220 Ω	134F221C
R 61	CHIP RES. 1/10W J 1M Ω	134F105C
R 62	CHIP RES. 1/10W J 1K Ω	134F102C
8.63	CHIP RES. 1/10W J 1M O	134F105G
R 64	CHIP RES, 1/10W J 1M Ω	134F105C
R 65	CHIP RES. 1/10W J 2.2K Ω	134F222C
R 66	CHIP RES. 1/10W J 5.6K Ω	134F562C
R 67	CHIP RES. 1/10W J 1K Ω	1
R 68	CHIP RES. 1/10W J 4.7K Ω	134F102C
R 69		134F472C
	CHIP RES. 1/10W J 2.2K Ω	134F222C
R 70	CHIP RES. 1/10W J 2.2K Ω	134F222C
7 71	CHIP RES. 1/10W J 560 Ω	134F561C
7 72	CHIP RES. 1/10W J 1K Ω	134F102C
73	CHIP RES, 1/10W J 1.8K Ω	134F182C
74	CHIP RES. 1/10W J 12K Ω	134F123C
77	CHIP RES. 1/10W J 33K Ω	134F333C
78	CHIP RES. 1/10W J 1.2K Ω	134F122C
79	CHIP RES. 1/10W J 1K Ω	134F102C
R 80	CHIP RES. 1/10W J 1K.Ω	134F102C
₹ 81	CHIP RES. 1/10W J 68 Ω	134F680C
9 82	CHIP RES. 1/10W J 470K Ω	134F474C
R 83	CHIP RES. 1/10W J 100K Ω	134F104C
₹ 84	CHIP RES. 1/10W J 39K Ω	134F393C
₹ 85	CHIP RES. 1/10W J 1K Ω	134F102C
	CHIP RES. 1/10W J 3.3K Ω	

Ref. No.		Part No.
R 3507	CARBON RES. 1/5W J 1K \O or	1324102T
	CARBON RES. 1/6W J 1K Ω or	132A102T
	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 3508	CARBON RES. 1/5W J 1.5K Ω or	1324152T
1	CARBON RES. 1/6W J 1.5K Ω or	132A152T
l_	CARBON RES, 1/4W J 1.5K Ω	RCX4JATZ0152
R 3509	CARBON RES. 1/5W J 3.9K Ω or	1324392T
	CARBON RES. 1/6W J 3.9K Ω or	132A392T
R 3510	CARBON RES. 1/4W J 3.9K Q	RCX4JATZ0392
N 3510	CARBON RES. 1/5W J 1.8K Ω or CARBON RES. 1/6W J 1.8K Ω or	1324182T
l	CARBON RES. 1/4W J 1.8K Ω	132A182T
R 3511	CARBON RES. 1/5W J 390 Ω or	RCX4JATZ0182
J	CARBON RES. 1/6W J 390 Ω or	1324391T
	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R 3512	CARBON RES. 1/5W J 1K Ω or	1324102T
	CARBON RES. 1/6W J 1K Ω or	132A102T
l	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 3513	CARBON RES. 1/5W J 1.5K Ω or	1324152T
	CARBON RES. 1/6W J 1.5K Ω or	132A152T
	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 3514	CARBON RES. 1/5W J 1.2K Ω or	1324122T
	CARBON RES. 1/6W J 1.2K Ω or	132A122T
	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122
R 3515	CARBON RES. 1/5W J 390 Ω or	1324391T
	CARBON RES. 1/6W J 390 Ω or	132A391T
	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R 3516	CARBON RES, 1/5W J 390 Ω or	1324391T
	CARBON RES. 1/6W J 390 Ω or	132A391T
	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R 3517	CARBON RES, 1/5W J 680 Ω or	1324681T
	CARBON RES. 1/6W J 680 Ω or	132A681T
R 3518	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
H 3518	CARBON RES. 1/5W J 22K Ω or CARBON RES. 1/6W J 22K Ω or	1324223T
	CARBON RES. 1/4W J 22K Ω	132A223T
R 3519	CARBON RES. 1/5W J 8.2K Ω or	RCX4JATZ0223
11 33 13	CARBON RES. 1/6W J 8.2K Ω or	1324822T
	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ0822
R 3520	CARBON RES. 1/5W J 2.7K Ω or	1324272T
	CARBON RES. 1/6W J 2.7K Ω or	132A272T
	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272
R 3522	CARBON RES. 1/5W J 33K Ω or	1324333T
	CARBON RES. 1/6W J 33K Ω or	132A333T
	CARBON RES. 1/4W J 33K Ω	RCX4JATZ0333
R 3523	CARBON RES. 1/5W J 5.6K Ω or	1324562T
	CARBON RES. 1/6W J 5.6K Ω or	132A562T
	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562
R 3524	CARBON RES. 1/5W J 1K Ω or	1324102T
	CARBON RES. 1/6W J 1K Ω or	132A102T
	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
	CARBON RES. 1/5W J 1.2K Ω or	1324122T
	CARBON RES. 1/6W J 1.2K Ω or	132A122T
- 1	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122
	CARBON RES. 1/5W J 2.7K Ω or	1324272T
	CARBON RES. 1/6W J 2.7K Ω or	132A272T
	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272
	CARBON RES. 1/5W J 100 Ω or	1324101T
	CARBON RES. 1/6W J 100 Ω or	132A101T
	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101

Ref. No.	Description	Part No.
R 4002	CARBON RES. 1/5W J 33K Ω or	1324333T
	CARBON RES. 1/6W J 33K Ω or	132A333T
	CARBON RES. 1/4W J 33K Ω	RCX4JATZ0333
R 4004	CARBON RES. 1/5W J 82 Ω or	1324820T
	CARBON RES. 1/6W J 82 Ω or	132A820T
	CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R 4005	CARBON RES. 1/5W J 390K Ω or	1324394T
	CARBON RES. 1/6W J 390K Ω or	132A394T
	CARBON RES. 1/4W J 390K Ω	RCX4JATZ0394
R 4006	CARBON RES. 1/5W J 6.8K Ω or	1324682T
	CARBON RES. 1/6W J 6,8K \(\Omega\) or	132A682T
	CARBON RES. 1/4W J 6,8K Ω	RCX4JATZ0682
R 4009	CARBON RES. 1/5W J 2.2M Ω or	1324225T
	CARBON RES. 1/6W J 2.2M Ω or	132A225T
	CARBON RES. 1/4W J 2.2M Ω	RCX4JATZ0225
R 4010	CARBON RES. 1/5W J 27K Ω or	1324273T
	CARBON RES. 1/6W J 27K Ω or	132A273T
	CARBON RES. 1/4W J 27K Ω	RCX4JATZ0273
R 4011	CARBON RES. 1/5W J 5.6K Ω or	1324562T
	CARBON RES. 1/6W J 5.6K Ω or	132A562T
	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562
R 4012	CARBON RES. 1/5W J 3.9K Ω or	1324392T
	CARBON RES. 1/6W J 3.9K Ω or	132A392T
	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
4014	CARBON RES. 1/5W J 1.5K Ω or	13241521
14014	CARBON RES. 1/6W J 1.5K Ω or	122.
	CARBON RES. 1/4W J 1.5K Ω	132A152T
R 4015	CARBON RES. 1/5W J 1.8K Ω or	RCX4JATZ0152
14013	CARBON RES. 1/6W J 1.8K Ω or	1324182T
	CARBON RES. 1/4W J 1.8K Ω	132A182T
3 4016	CARBON RES. 1/5W J 1K Ω or	RCX4JATZ0182
14010	CARBON RES. 1/6W J 1K \O or	1324102T
	CARBON RES. 1/4W J 1K Ω	132A102T
R 4017	CARBON RES. 1/5W J 1K Ω or	RCX4JATZ0102
4017	i e	1324102T
	CARBON RES. 1/6W J 1K Ω or CARBON RES. 1/4W J 1K Ω	132A102T
3 4018		RCX4JATZ0102
14018	CARBON RES. 1/5W J 27K Ω or	13242737
	CARBON RES. 1/6W J 27K Ω or	132A273T
4010	CARBON RES. 1/4W J 27K Ω	RCX4JATZ0273
14019	CARBON RES. 1/5W J 47 Ω or	1324470T
	CARBON RES. 1/6W J 47 Ω or	132A470T
1 4020	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
14020	CARBON RES. 1/5W J 6.8K Ω or	1324682T
	CARBON RES. 1/6W J 6.8K Ω or	132A682T
4021	CARBON RES. 1/4W J 6.8K Ω	RCX4JATZ0682
4021	CARBON RES. 1/5W J 4,7 Ω or	1324479T
	CARBON RES. 1/6W J 4.7 Ω or	132A479T
4022	CARBON RES. 1/4W J 4.7 Ω	RCX4JATZ04R7
4022	CARBON RES. 1/5W J 22 Ω or	1324220T
	CARBON RES, 1/6W J 22 Ω or	132A220T
	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
4026	CARBON RES. 1/5W J 4.7K Ω or	1324472T
	CARBON RES. 1/6W J 4,7K Ω or	132A472T
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
4027	CARBON RES. 1/5W J 2,2K Ω or	1324222T
	CARBON RES. 1/6W J 2.2K Ω or	132A222T
		1

Ref. No.	T dan	Part No.
	Description	1324181T
R 6032	CARBON RES. 1/5W J 180 Ω or	132A181T
	CARBON RES. 1/6W J 180 Ω OF	RCX4JATZ0181
	CARBON RES. 1/4W J 180 Ω	
	VOLUMES	238A338Y
VR3501	CARBON P.O.T. 2.2K Ω or	238N506Y
	CARBON P.O.T. 2 KΩ	238A348Y
VR4001	CARBON P.O.T. 100K Ω or	238N513Y
	CARBON P.O.T. 100 KΩ	
	MISCELLANEOUS	0VM301259
B2- 4	SHIELD BOTTOM (TV) K1870UA	0VM300746
B2- 5	SHIELD TOP (2H) K6190BA	1720688
TP3501	TEST PIN RT-01T-1.3B	1720688
TP3502	TEST PIN RT-01T-1.3B	1720688
TP3503	TEST PIN RT-01T-1.3B	1720688
TP3504	TEST PIN RT-01T-1.3B	1720688
TP3505	TEST PIN RT-01T-1.3B	1720688
TP4001	TEST PIN RT-01T-1.3B	1720688
TP4002	TEST PIN RT-01T-1.3B	1
T 4001	COIL OSC AUDIO or	130686
	COIL OSC AUDIO or	113M686
1	COIL OSC AUDIO	1130686

MCV-E C.B.A. (ACE Head Conn.)

Rel. No.	Description	Part No.
	MCV-E C.B.A. Consists of the following:	
CN4001	CONNECTOR HOUSING 6P	JCZLB06NBC0F
	IL-SDD-6S-S2L2-FA	<u> </u>

MCV-F C.B.A. (FE-H Conn.)

Ref. No.	Description	Part No.
	MCV-F C.B.A.	
	Consists of the following:	
CN4002	CONNECTOR HOUSING 2P	JCZLB02NBC0F
	IL-SDD- 2S-S2L2-FA	

MCV-G C.B.A. (Control)

Ref. No.	Description	Part No
	MCV-G C.B.A.	
	Consists of the following:	
	CAPACITORS	
C 5501	ELECTROLYTIC CAP. 47µF.6.3V M H7	526R476S
C 5502	CERAMIC CAP. F Z 0.033µF/12V or	1220887T
	CERAMIC CAP. F Z 0.033µF/16V	122Z790T
	CONNECTOR	
CN5501	HINGED PIN CONNECTOR 8P TKC-08P-E1	1700362
	DIODES	
D 5501	LED SLR-34VR5 RED	1401230
D 5502	LED SLR-34VR5 RED	1401230
D 5503	LED SLR-34MG5 GREEN	1401231
	TRANSISTORS	
Q 5501	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
O 5502	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 5503	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z

Ref. No.	Description	Part No.
	RESISTORS	
3 5501	CARBON RES. 1/5W J 100 Ω or	1324101T
1 3301	CARBON RES. 1/6W J 100 Ω or	132A101T
	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R 5502	CARBON RES. 1/5W J 10K Ω or	1324103T
10002	CARBON RES. 1/6W J 10K Ω or	132A103T
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 5503	CARBON RES. 1/5W J 4.7K Ω or	1324472T
	CARBON RES. 1/6W J 4.7K Ω or	132A472T
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 5504	CARBON RES. 1/5W J 4.7K Ω or	1324472T
	CARBON RES. 1/6W J 4.7K Ω or	132A472T
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 5505	CARBON RES. 1/5W J 1.2K Ω or	1324122T
110000	CARBON RES. 1/6W J 1.2K Ω or	132A122T
	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122
R 5506	CARBON RES. 1/5W J 3K Ω or	1324302T
110000	CARBON RES. 1/6W J 3K Ω or	132A302T
	CARBON RES. 1/4W J 3K Ω	RCX4JATZ0302
R 5507	CARBON RES. 1/5W J 6.2K Ω or	1324622T
11 3307	CARBON RES. 1/6W J 6.2K Ω or	132A622T
Ì	CARBON RES. 1/4W J 6.2K Ω	RCX4JATZ0622
D CCCC	CARBON RES. 1/5W J 6.2K Ω or	1324622T
R 5508	CARBON RES. 1/6W J 6.2K Ω or	132A622T
Ì	CARBON RES. 1/4W J 6.2K Ω	RCX4JATZ0622
		1324153T
R 5509	CARBON RES. 1/5W J 15K Ω or	132A153T
	CARBON RES. 1/6W J 15K Ω or	RCX4JATZ0153
1	CARBON RES. 1/4W J 15K Ω	1324153T
R 5510	CARBON RES. 1/5W J 15K Ω or	1324153T
}	CARBON RES. 1/6W J 15K Ω or	RCX4JATZ0153
1	CARBON RES. 1/4W J 15K Ω	1324471T
R 5511	CARBON RES. 1/5W J 470 Ω or	132A471T
	CARBON RES. 1/6W J 470 Ω or	
ì	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R 5512	CARBON RES. 1.5W J 470 Ω or	13244717
	CARBON RES. 1/6W J 470 Ω or	132A471T
1	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R 5513	CARBON RES. 1/5W J 1.2K Ω or	1324122T
ì	CARBON RES. 1/6W J 1.2K Ω or	132A122T
1	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122
R 5514	CARBON RES. 1/5W J 3K Ω or	1324302T
1	CARBON RES. 1/6W J 3K Ω or	132A302T
Ì	CARBON RES. 1/4W J 3K Ω	RCX4JATZ0302
R 5515	CARBON RES. 1/5W J 150 Ω or	1324151T
	CARBON RES, 1/6W J 150 Ω or	132A151T
	CARBON RES, 1/4W J 150 Ω	RCX4JATZ0151
	SWITCHES	
SW550	1 PUSH SWITCH EVQ-335 05R or	5622212Y
	PUSH SWITCH SK0HV00059	SST0101AL003
SW550	1	5622212Y
1	PUSH SWITCH SKOHV00059	SST0101AL003
SW550		5622212Y
3,130	PUSH SWITCH SK0HV00059	SST0101AL003
DIMESO		5622212Y
SW550		SST0101AL003
	PUSH SWITCH SKOHV00059	5622212Y
SW550	1	
1	PUSH SWITCH SKOHV00059	SST0101AL003
SW550	1	5622212Y SST0101AL003
1.	PUSH SWITCH SKCHV00059	

D-1 N-	Description	Dort Ma
Ref. No.	Description CARBON RES, 10KΩ 1/6W	Part No. 132A103T
R632 R635	CARBON RES. 10KΩ 1/6W	132A103T
R637	CARBON RES. 1KΩ 1/6W	132A103T
R638	CARBON RES. 10KΩ 1/6W	132A102T
R639	CARBON RES. 10KΩ 1/6W CARBON RES. 22KΩ 1/4W J	1345223S
R800	CARBON RES. 150KΩ 1/6W	132A154T
H800	SWITCHES	13281341
SW301	SLIDE SWITCH or	1621654
311301	SLIDE SWITCH or	SSS0202HZ003
	SLIDE SWITCH or	SSS0202WM001
}	SLIDESWITCH	SSS0202DK001
SW501 🛧	POWERSWITCH	SPP0A8ZAL001
<u> </u>	VOLUMES	
VR301	SEMIFIXED RES. 1K\O B (PAL ADJ.) or	638A102
	SEMIFIXED RES. 1K\O B (PAL ADJ.) or	138J777
	SEMIFIXED RES. 1KΩ B (PAL ADJ.)	1380706
VR302	SEMIFIXED RES. 100KΩ B (V. SIZE) or	638A104
	SEMIFIXED RES. 100KQ B (V. SIZE) or	138J785
1	SEMIFIXED RES. 100KΩ B (V. SIZE)	1380716
VR303	SEMIFIXED RES. 20KΩ B (SUB BRIGHT) or	638A223
	SEMIFIXED RES. 20KQ B (SUB BRIGHT) or	138J782
	SEMIFIXED RES. 20KΩ B (SUB BRIGHT)	1380709
VR304	SEMIFIXED RES. 200Ω B	638A221
(R342)	(H. POSITION ADJ.) or	
	SEMIFIXED RES. 200Ω B	238J113
1	(H. POSITION ADJ.) or	
	SEMIFIXED RES. 200Ω B (H. POSITION ADJ.)	1380710
VR601	SEMIFIXED RES. 50K\(\Omega\) B (112V ADJ.) or	638A473
171001	SEMIFIXED RES. 50KQ B (112V ADJ.) or	138J784
İ	SEMIFIXED RES. 50KΩ B (112Y ADJ.)	1380704
VR602	SEMIFIXED RES. 5KΩ B (12V ADJ.) or	638A472
	SEMIFIXED RES. 5KQ B (12V ADJ.) or	138J780
	SEMIFIXED RES. 5KΩ B (12V ADJ.)	1380714
	MISCELLANEOUS	
CN201	CONNECTOR BASE 5pin (for D.Y) or	1780168
1	CONNECTOR BASE 5pin (for D.Y) or	1780277
1	CONNECTOR BASE 5pin (for D.Y)	1730812
CN501	CONNECTOR BASE 2pin (for D.G. COIL) or	1780165
	CONNECTOR BASE 2pin (for D.G. COIL)	1780276
CN601	CONNECTOR BASE 13pin (MAIN C.B.A. ~ VCR)	1700679
DL301	GLASS DELAY or	1813554
10000	GLASS DELAY	1812056
F501 🛆	FUSE T4AH 250V	PAGC20BAG402
FH501	FUSE HOLDER or	1790848
	FUSEHOLDER	1790424
FH502	FUSE HOLDER or	1790848
	FUSE HOLDER	1790424
HS- 1	HEAT SINK EH (for IC501)	0EM401068
HS-2	HEAT SINK PO (for IC202)	0EM401065
HS- 3	HEAT SINK PQ (for IC601)	0EM401067
HS-4	HEAT SINK PM (for Q202)	0EM401038
J501 🛕	AC INLET	JTDC0P0HD002
LD 2	WIRE ASS'Y 2pin	WX1B6400-001
	(MAIN C.B.A. ~ EARPHONE C.B.A.)	
TD 3	LEAD WIRE UL1050 AWG22 120mm	WX3001C20012
PS501 A		5790117
T201	H. DRIVE TRANS	1150325
T202 🛕	F.B.T.	1813482

Ref. No.	Description	Part No.
T501 🔥	SWITCHING TRANS	LTT00EPMS007
TP 1	TEST PIN or	1700093
	TEST PIN	1740354
TP 2	TEST PIN or	1700093
	TEST PIN	1740354
TP 3	TEST PIN or	1700093
	TEST PIN	1740354
TP 4	TEST PIN or	1700093
	TEST PIN	1740354
TP 5	TEST PIN or	1700093
	TEST PIN	1740354
TP 6	CONNECTOR PIN	1720688
XT302	X' TAL 4.43MHz	1811387
XT303	CERAMIC RESONATOR	1813552
	HEAT SINK SHEET (for Q202) or	XJ0Z000DB001
	HEAT SINK SHEET (for Q202)	XJ0Z000CA002
	WIRE TIE or	1790256
	WIRE TIE	1890356

CRT C.B.A.

Ref. No.	Description	Part No.
	CRT C.B.A.	ļ
	Consists of the following:	1
	CAPACITORS	
C701	CERAMIC CAP. 0.01 µF/2KV or	CCD3DZP0E103
	CERAMIC CAP. 0.01 µF/2KV	6220 602
C702	CERAMIC CAP, 390pF/50V YB or	12B3391S
	CERAMIC CAP, 390pF/50V YB	3842391T
C703	CERAMIC CAP, 270pF/50V YB or	12B3271S
	CERAMIC CAP, 270pF/50V YB	3B42271T
C704	CERAMIC CAP, 330pF/50V YB or	12B3331S
	CERAMIC CAP, 330pF/50V YB	3B42331T
C705	ELECTROLYTIC CAP. 10µF/50V	126F106S
C706	CERAMIC CAP, 1000pF/50V YB or	12B3102S
	CERAMIC CAP, 1000pF/50V YB	3B42102T
	COIL	
L701	MICRO INDUCTOR 100µH or	2165101T
	MICRO INDUCTOR 100µH	216210T
	TRANSISTORS	
Q701	TR. 2SC2228AEMP(D) or	2SC2228D-AE-MP
	TR. 2SC2228AEMP(E)	2SC2228E-AE-MP
Q702	TR. 2SC2228AEMP(D) or	2SC2228D-AE-MP
	TR. 2SC2228AEMP(E)	2SC2228E-AE-MP
Q703	TR. 2SC2228AEMP(D) or	2SC2228D-AE-MF
ļ	TR. 2SC2228AEMP(E)	2SC2228E-AE-MF
	RESISTORS	
R701	METAL RES. 15KΩ 1W	534A153
R702	METAL RES. 15KΩ 1W	534A153
R703	METAL RES. 15KΩ 1W	534A153
R704	CARBON RES. 1.5KΩ 1/4W J	1345152S
R705	CARBON RES. 1.8KΩ 1/4W J	1345182S
R706	CARBON RES. 1.8KΩ 1/4W J	1345182S
R707	CARBON RES. 1.5KΩ 1/4W J	13451529
R708	CARBON RES. 1.8KΩ 1/4W J	1345182S
R709	CARBON RES. 1.5KΩ 1/4W J	13451528
R710	CARBON RES. 1.8KΩ 1/6W	132A182T
R711	CARBON RES. 560Ω 1/6W	132A561T
R712	CARBON RES. 1.8KΩ 1/6W	132A182T
1	CARBON RES. 330Ω 1/6W	132A331T
R713	CARBON RES. 33011 1/6W	1102/0011

Ref. No.	Description	Part No.
714	CARBON RES. 560Ω 1/6W	132A561T
715	CARBON RES. 1.8KΩ 1/6W	132A182T
1716	CARBON RES. 560Ω 1/6W	132A561T
.,,,,	VOLUMES	
/R701	SEMIFIXED RES. SKO B (B. CUT OFF) or	138A957
11101	SEMIFIXED RES. 5KQ B (B. CUT OFF) or	138J916
	SEMIFIXED RES. 5KΩ B (B. CUT OFF)	1380851
/R702	SEMIFIXED RES. 5KQ B (G. CUT OFF) or	138A957
,,,,oL	SEMIFIXED RES. 5KQ B (G. CUT OFF) or	138J916
	SEMIFIXED RES. 5KQ B (G. CUT OFF)	1380851
VR703	SEMIFIXED RES. 5KO B (R. CUT OFF) or	138A957
¥R/03	SEMIFIXED RES. 5KQ B (R. CUT OFF) or	138J916
	SEMIFIXED RES. 5KQ B (R. CUT OFF)	1380851
VR704	SEMIFIXED RES. 500Ω B (R. DRIVE) or	138A951
VID7U4	SEMIFIXED RES. 500 B (R. DRIVE) or	138J912
	SEMIFIXED RES. 500Ω B (R. DRIVE)	1380849
VR705	SEMIFIXED RES. 500 DB (B. DRIVE) or	138A951
VH/UD	SEMIFIXED RES. 500 \(B \) B (B. DRIVE) or	138J912
	SEMIFIXED RES. 500Q B (B. DRIVE)	1380849
	MISCELLANEOUS	
CN701	CONNECTOR PIN 1 pin (CRT GND) or	JTEA000LC001
CN/OI	CONNECTOR PIN 1 pin (CRT GND)	1730688
1700 A	CRT SOCKET or	1780218
J702 🛧	CRT SOCKET	1780080
LD701	WIRE ASS'Y 4pin	WX1B6400-002
LW/01	(MAIN C.B.A. ~ CRT C.B.A.)	1
LD702	WIRE ASS'Y 5pin	WX1B6400-003
111/02	(MAIN C.B.A. ~ CRT C.B.A.)	

CHASSIS ELECTRICAL PARTS

Ret. No.	Description	Part No.
	CRT 370KRB22-TC09(SPYB) or CRT 370KRB22-TC01(P) or CRT 33KFC12XX48 PEGAUSSING COIL or IDEGAUSSING COIL	1812341 1812724 TCRT1C+GS001 1120172 LLBZ000AB013
LD 1 LD703	WIRE ASSY (EARPHONE C.B.A. ~ SP) WIRE ASSY (CRT GND WIRE) OF WIRE ASSY (CRT.GND WIRE) SPEAKER OF	WX1B6200-004 CE8002-04 WX1B6200-006 152N589
58 1	SPEAKER OF SPEAKER OF SPEAKER OF SPEAKER OF SPEAKER OF	1520614 1520568 1520589 DSD0807HC001 DSD0808DJ001

FARPHONE C.B.A.

Ref. No.	Description	Part No.
	EARPHONE C.B.A. Consists of the following:	
CN 1	CONNECTOR BASE 2pin (EARPHONE C.B.A. ~ SP)	1770258
EP 1	EARPHONE JACK	163C419
R 10	CARBON RES. 82Ω 1/6W	132A820T

Ref. No	Description	Part No.
R 2043	CARBON RES. 1/5W J 47K Ω or	1324473T
1	CARBON RES. 1.6W J 47K Ω or	132A473T
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 2044	CARBON RES. 1/5W J 47K Ω or	1324473T
1	CARBON RES. 1/6W J 47K \O or	132A473T
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 2045	CARBON RES. 1/5W J 470K Ω or	1324474T
1	CARBON RES. 1/6W J 470K Ω or	132A474T
1	CARBON RES. 1/4W J 470K Ω	RCX4JATZ0474
R 2046	CARBON RES. 1/5W J 470K Ω or	1324474T
	CARBON RES. 1/6W J 470K Ω or	132A474T
	CARBON RES. 1/4W J 470K Ω	RCX4JATZ0474
R 2048	CARBON RES. 1/5W J 2.7K Ω or	1324272T
	CARBON RES. 1/6W J 2.7K Ω or	132A272T
	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272
R 2049	CARBON RES, 1/5W J 220 Ω or	1324221 T
1	CARBON RES. 1/6W J 220 Ω or	132A221T
1	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R 2050	CARBON RES. 1/5W J 47K Ω or	1324473T
l	CARBON RES. 1/6W J 47K Ω or	132A473T
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 2051	CARBON RES. 1/5W J 82K Ω or	1324823T
ĺ	CARBON RES. 1/6W J 82K Ω or	132A823T
	CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
R 2060	CARBON RES. 1/5W J 2.2K Ω or	1324222T
	CARBON RES. 1/6W J 2.2K Ω or	132A222T
ı	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 2061	CARBON RES. 1/5W J 8,2K Ω or	1324822T
1	CARBON RES. 1/6W J 8.2K Ω or	132A822T
1	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ0822
R 3201	METAL RES. 1W J 330 Ω or	1330419
	METAL RES. 1W J 330 Ω	1330363
R 3204	CARBON RES. 1/5W J 2.7K Ω or	1324272T
	CARBON RES, 1/6W J 2.7K Ω or	132A272T
	CARBON RES. 1/4W J 2,7K Ω	RCX4JATZ0272
R 3206	CARBON RES. 1/5W J 820 Ω or	1324821T
	CARBON RES. 1/6W J 820 Ω or	132A821T
	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R 3207	CARBON RES. 1/5W J 560 Ω or	1324561T
	CARBON RES. 1/6W J 560 Ω or	132A561T
	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R 3208	CARBON RES. 1/5W J 470 Ω or	1324471T
	CARBON RES. 1/6W J 470 Ω or	132A471T
	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R 3210	CARBON RES. 1/5W J 100 Ω or	1324101T
	CARBON RES. 1/6W J 100 Ω or	132A101T
	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R 6001	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6002	CARBON RES, 1/5W J 47K Ω or	1324473T
ļ	CARBON RES. 1/6W J 47K Ω or	132A473T
ĺ	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6003	CARBON RES. 1/5W J 47K Ω or	1324473T
,	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
1	CARBON RES. 1/5W J 330K Ω or	1324334T
l	CARBON RES. 1/6W J 330K Ω or	132A334T
1	CARBON RES. 1/4W J 330K Ω	RCX4JATZ0334

Ref. No	Description	Part No.
R 6005	CARBON RES. 1/5W J 47K Ω or	1324473T
ŀ	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6006	CARBON RES. 1/5W J 100 Ω or	1324101T
1	CARBON RES. 1/6W J 100 Ω or	132A101T
	CARBON RES, 1/4W J 100 Ω	RCX4JATZ0101
R 6007	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6008	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6009	CARBON RES. 1/5W J 10K Ω or	1324103T
	CARBON RES. 1/6W J 10K Ω or	132A103T
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6010	CARBON RES. 1/5W J 10K Ω or	1324103T
	CARBON RES. 1/6W J 10K Ω or	132A103T
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6011	CARBON RES. 1/5W J 10K Ω or	1324103T
	CARBON RES. 1/6W J 10K Q or	132A103T
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6012	CARBON RES. 1/5W J 4.7K Ω or	1324472T
	CARBON RES. 1/6W J 4.7K Ω or	132A472T
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 6013	CARBON RES. 1/5W J 1K Ω or	-
10013		1324102T
	CARBON RES. 1/6W J 1K Ω or	132A102T
20044	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 6014	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
6015	CARBON RES. 1/5W J 47K Ω or	1324473₹
	CARBON RES. 1/6W J 47K Ω or	132A473T
0010	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
6016	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
6017	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
6017	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K 12 or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
6018	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES, 1/6W J 47K Ω or	132A473T
	CARBON RES, 1/4W J 47K Ω	RCX4JATZ0473
6019	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
6020	CARBON RES, 1/5W J 47K Ω or	1324473T
ĺ	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
6021	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
	CARBON RES. 1/5W J 47K Ω or	1324473T
1	CARBON RES. 1/6W J 47K Ω or	132A473T
	CARBON RES, 1/4W J 47K Ω	RCX4JATZ0473
6023	CARBON RES. 1/5W J 10K Ω or	1324103T
	CARBON RES. 1/6W J 10K Ω or	132A103T
- 1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
;	CARBONIRES, 1/5W J 2,2K Ω or	13242221
	CARBON RES. 1/6W J 2.2K Ω or	132A222T
	CARBON RES. 1/4W.1.2.2K.O.	DCV4 IATZ0202

CARBON RES. 1/4W J 2.2K Ω

Ref. No.	Description	Part No.
R 6025	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K Q or	132A473T
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6026	CARBON RES. 1/5W J 47K Ω or	1324473T
	CARBON RES. 1/6W J 47K \(\O \) or	132A473T
	CARBON RES. 1/4W J 47K Ω	PCX4JATZ0473
R 6027	CARBON RES 1/5W L47K O or	1324473T
	CARBON RES. 1/6W J 47K Ω or	132A473T RCX4JATZ0473
	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 7001	CARBON RES. 1/5W J 56K Ω or	1324563T
	CARBON RES. 1/6W J 56K Ω or	132A563T
	CARBON RES. 1/4W J 56K Ω :	RCX4JATZ0563
R 7002	CARBON RES. 1/5W J 15K Ω or	1324153T
	CARBON RES. 1/6W J 15K (Tor	132A153T
	CARBON RES. 1/4W J 15K IT	RCX4JATZ0153
R 7003	CARBON RES. 1/5W J 15K Ω or	1324153T
	CARBON RES. 1/6W J 15K Ω or	132A153T
	CARBON RES. 1/4W J 15K Ω	RCX4JATZ0153
R 7004	CARBON RES. 1/5W J 15K Ω or	1324153T
	CARBON RES. 1/6W J 15K Ω or	132A153T
		RCX4JATZ0153
R 7005	CARBON RES. 1/4W J 15K Ω	1324103T
n /005	CARBON RES. 1/5W J 10K Ω or	132A103T
	CARBON RES. 1/6W J 10K Ω or	RCX4JATZ0103
D 2000	CARBON RES. 1/4W J 10K Ω	1324563T
R 7006	CARBON RES. 1/5W J 56K Ω or	1
	CARBON RES. 1/6W J 56K Ω or	132A563T
	CARBON RES. 1/4W J 56K Ω	RCX4JATZ0563
R 7007	CARBON RES. 1/5W J 15K Ω or	1324153T
	CARBON RES. 1/6W J 15K Ω or	132A153T
	CARBON RES. 1/4W J 15K Ω	RCX4JATZ0153
R 7008	CARBON RES. 1/5W J 33K Ω or	1324333T
	CARBON RES. 1/6W J 33K Ω or	132A333T
	CARBON RES. 1/4W J 33K Ω	RCX4JATZ0333
FI 7009	CARBON RES. 1/5W J 20K Ω or	1324203T
	CARBON RES. 1/6W J 20K Ω or	132A203T
	CARBON RES. 1/4W J 20K Ω	RCX4JATZ0203
R 7010	CARBON RES. 1/5W J 10K Ω or	1324103T
	CARBON RES. 1/6W J 10K 12 or	132A103T
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 7011	CARBON RES. 1/5W J 10K Ω or	1324103T
	CARBON RES. 1/6W J 10K Ω or	132A103T
į	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 7012	CARBON RES. 1/5W J 3.3K Ω or	1324332T
1	CARBON RES. 1/6W J 3.3K Ω or	132A332T
	CARBON RES. 1/4W J 3.3K Ω	RCX4JATZ0332
R 7013	CARBON RES. 1/5W J 3.9K Ω or	1324392T
1	CARBON RES. 1/6W J 3.9K Ω or	132A392T
	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 7014	CARBON RES. 1/5W J 6.8K Ω or	1324682T
	CARBON RES. 1/6W J 6.8K Ω or	132A682T
	CARBON RES. 1/4W J 6.8K Ω	RCX4JATZ0682
R 7015	CARBON RES. 1/5W J 10K Ω or	1324103T
,3,5	CARBON RES. 1/6W J 10K Ω or	132A103T
l .	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 7016	CARBON RES. 1/5W J 100K Ω or	1324104T
14,010	CARBON RES. 1/6W J 100K Ω or	132A104T
1	CARBON RES. 1/4W J 100K Ω	RCX4JATZ0104
	1	ļ
R 7017	CARBON RES. 1/5W J 22K (2) or	1324223T
	CARBON RES. 1/6W J 22K Ω or	132A223T
	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223

Ref. No.	Description	Part No.
R 7018	CARBON RES. 1/5W J 820 Ω or	1324821T
	CARBON RES. 1/6W J 820 Ω or	132A821T
	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R 7019	CARBON RES. 1/5W J 750 Ω or	1324751T
	CARBON RES. 1/6W J 750 Ω or	132A751T
	CARBON RES. 1/4W J 750 Ω	PCX4JATZ0751
R 7020	CARBON RES. 1/5W J 1K Ω or	1324102T
	CARBON RES. 1/6W J 1K Ω or	132A102T
. —	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 7021	CARBON RES. 1/5W J 330K Ω or	1324334T
	CARBON RES. 1/6W J 330K Ω or	132A334T
	CARBON RES. 1/4W J 330K Ω	PICX4JATZ0334
R 7023	CARBON RES. 1/5W J 2.2K Ω or	1324222T
117020	CARBON RES. 1/6W J 2.2K Ω or	132A222T
	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 7025	CARBON RES. 1/5W J 10K Ω or	1324 \$037 1
H /UZ3	CARBON RES. 1/6W J 10K Ω or	132A103T
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
		1324222T
R 7026	CARBON RES. 1/5W J 2.2K Ω or	132A222T
	CARBON RES. 1/6W J 2.2K Ω or	RCX4JATZ0222
	CARBON RES. 1/4W J 2.2K Ω	
R 7027	CARBON RES. 1/5W J 56 Ω or	1324560T
	CARBON RES. 1/6W J 56 Ω or	132A560T
	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
R 7502	CARBON RES. 1/5W J 75 Ω or	1324750T
	CARBON RES. 1/6W J 75 Ω or	132A750T
	CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R 8002	CARBON RES. 1/5W J 100 Ω or	1324101T
	CARBON RES. 1/6W J 100 Ω or	132A101T
	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R 8003	CARBON RES. 1/5W J 4.7K Ω or	1324472T
11,0000	CARBON RES. 1/6W J 4.7K Ω or	132A472T
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 8004	CARBON RES. 1/5W J 1.2K Ω or	1324122T
11.000	CARBON RES, 1/6W J 1.2K Ω or	132A122T
	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122
R 8005	CARBON RES. 1/5W J 220 Ω or	1324221T
n 8003	CARBON RES. 1/6W J 220 Ω or	132A221T
	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
	CARBON RES. 1/5W J 2,2K Ω or	1324222T
R 8006		132A222T
	CARBON RES. 1/6W J 2.2K Ω or	RCX4JATZ0222
	CARBON RES. 1/4W J 2.2K Ω	
R 8007	CARBON RES. 1/5W J 5.6K Ω or	1324562T 1324562T
	CARBON RES. 1/6W J 5.6K Ω or	132A5621
j	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562
R 8008	CARBON RES. 1/5W J 680 Ω or	1324681T
1	CARBON RES. 1/6W J 680 Ω or	132A681T
	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R 8009	CARBON RES. 1/5W J 470 Ω or	1324471T
ł	CARBON RES. 1/6W J 470 Ω or	132A471T
	CARBON RES. 1/4W J 470 Ω	RCX49ATZ0471
R 8011	CARBON RES. 1/5W J 2.2K Ω or	1324222T
1	CARBON RES, 1/6W J 2.2K Ω or	132A222T
	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 8012	CARBON RES. 1/5W J 10K Ω or	1324103T
1	CARBON RES. 1/6W J 10K Ω or	132A1Q3T
1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 8014	CARBON RES. 1/5W J 120 Ω or	1324121T
n 8014	CARBON RES. 1/6W J 120 Ω or	132A121T
		HAZAIZH

RCX4JATZ0222

ELECTRICAL REPLACEMENT PARTS LIST [VCR]

PRODUCT SAFETY NOTE: Products marked with a \triangle have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice of this service manual. Don't degrade the safety of the product through improper servicing.

GENERAL NOTE: "C.B.A." is abbreviation for "Printed Circuit Board Assembly".

NOTE: Parts that not assigned part numbers (-----) are not available.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	J±5%	Z+80/-20%
D±0.5%	K±10%	X+40/-20%
F±1%	M±20%	P+100%
G±2%	N±30%	

MCV C.B.A.

Ref. No.	Description	Part No.
	MCV C.B.A. JP380/2870 Consists of the following :	0VSA04933
	P.C.B. K2870/MCV	BK2870F01001
1	MCV-A C.B.A.	
1	MCV-B C.B.A.	
	MCV-C C.B.A.	
	MCV-D C.B.A.	
ļ	MCV-E C.B.A.	
	MCV-F C.B.A.	
	MCV-G C.B A.	

MCV-A C.B.A. (Main)

Ref. No.	Description	Part No
	MCV-A C.B.A.	
	Consists of the following:	
-	CAPACITORS	
C 1501	ELECTROLYTIC CAP. 10µF/16V M	126C106S
C 1502	ELECTROLYTIC CAP. 47µF/16V M	126C476S
C 1503	ELECTROLYTIC CAP. 10µF/16V M	126C106S
C 1504	ELECTROLYTIC CAP, 10µF/16V M	126C106S
C 1505	ELECTROLYTIC CAP, 10µF/16V M	126C106S
C 2001	MYLAR CAP, 0.033µF/50V J	2254333\$
C 2002	ELECTROLYTIC CAP, 100µF/6.3V M	126A107S
C 2003	ELECTROLYTIC CAP. 0.22µF/50V M	126F224S
C 2004	CERAMIC CAP. Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01µF/16V	1220842T
C 2005	CERAMIC CAP. F Z 0.047µF/12V	32F1473S
C 2006	SEMICONDUCTOR CAP, SR K 0.047µF/25V	12Y2473S
C 2007	SEMICONDUCTOR CAP, SR K 0.047µF/25V	12Y2473S
C 2008	CERAMIC CAP, F Z 0.022µF/25V or	122Z122T
	CERAMIC CAP. F Z 0.022µF/25V	1220843T
C 2009	CERAMIC CAP, F Z 0.047µF/12V	32F1473S
C 2010	ELECTROLYTIC CAP, 100µF/6.3V M	126A107S
C 2011	ELECTROLYTIC CAP, 10µF/16V M	126C106S
C 2012	ELECTROLYTIC CAP. 10µF/16V M	126C106S
C 2013	ELECTROLYTIC CAP. 10µF/16V M LL.	124H106S
C 2014	CERAMIC CAP. Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01 µF/16V	1220842T

Rel. No.	Description	Part No.
C 2015	ELECTROLYTIC CAP, 33µF/10V M	126B336S
C 2016	CERAMIC CAP. F Z 0.1µF/25V	1220520S
C 2017	ELECTROLYTIC CAP. 47µF/25V M	126D476S
C 2018	CERAMIC CAP, F Z 0.1µF/25V	1220520S
C 2019	CERAMIC CAP, F Z 0.1µF/25V	1220520S
C 2020	CERAMIC CAP, F Z 0.022µF/25V or	122Z122T
	CERAMIC CAP, F Z 0.022µF/25V	1220843T
C 2021	SEMI, CONDCAP, F Z 0.1 µF/16V	1220522S
C 2022	ELECTROLYTIC CAP, 47µF/16V M	126C476S
C 2023	CERAMIC CAP, X K 0.0022µF/16V	3X4C222T
C 2024	ELECTROLYTIC CAP, 10µF/16V M	126C106S
C 2025	SEMICONDUCTOR CAP. SR K 0.047µF/25V	12Y2473S
C 2026	CERAMIC CAP. Y M 0.01µF/16V or	3Y4D103T
l	CERAMIC CAP, F Z 0.01 µF/16V	1220842T
C 2027	CERAMIC CAP, F Z 0.022µF/25V or	122Z122T
	CERAMIC CAP. F Z 0.022µF/25V	1220843T
C 2028	ELECTROLYTIC CAP 1µF/50V M	126F105S
C 2029	ELECTROLYTIC CAP. 1µF/50V M	126F105S
C 2030	ELECTROLYTIC CAP. 1µF/50V M	126F105S
C 2031	CERAMIC CAP, F Z 0.022µF/25V or	122 Z 122T
	CERAMIC CAP. F Z 0.022µF/25V	1220843T
C 2032	ELECTROLYTIC CAP, 10µF/16V M	126C106S
C 2033	CERAMIC CAP, Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01µF/16V	1220842T
C 2034	CERAMIC CAP, Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP, F Z 0.01 uF/16V.	1220842T
C 3201	ELECTROLYTIC CAP, 47µF/16V M	126C476S
C 3202	ELECTROLYTIC CAP. 1000µF/6.3V M	126A108S
C 3205	CERAMIC CAP, F Z 0.1µF/50V	3F40104T
C 4028	CERAMIC CAP. X K 0.0012µF/16V	3X4C122T
C 6001	CERAMIC CAP, SL J 22oF/50V	3S41220T
C 6002	CERAMIC CAP, SLJ 27pF/50V	3S41270T
C 6003	CERAMIC CAP, Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 6004	ELECTROLYTIC CAP. 47µF/6.3V M H7	526R476S C 6005
1	CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 6006	ELECTROLYTIC CAP, 1000µF/6.3V M	126A108S

		Part No.	- [Ret. No.	Description		Part No.	,
Rel. No.	Description Constitution	122Z122T	- 1	CN3202	FLOATING PIN CONNECTOR 10P	JSTK	J10TGH0F	
C 6007	CERAMIC CAP. F Z 0.022µF/25V or	1220843T	- 1		TKC-M10P-A1		W ATCLINE	
	CERAMIC CAP, F Z 0.022µF/25V	122Z122T	1	CN6001	FLOATING PIN CONNECTOR 14P	JSIK	J14TGH0F	
C 6008	CERAMIC CAP. F Z 0.022µF/25V or	1220843T	1		TKC-M14P-A1	1700	AC7	ĺ
	CERAMIC CAP. FZ 0.022µF/25V	3F40104T		CN6002	HINGED SOCKET CONNECTOR 8P	11/00	U01	
C 6009	CERAMIC CAP. F Z 0.1µF/50V	3B41101T		i	TKC-B08X-E1			į
C 6010	CERAMIC CAP. B J 100pF/50V	1220887T	٠		DIODES	115	S254T77##	l
C 6011	CERAMIC CAP. F Z 0.033µF/12V or	122Z790T		D 1501	DIODE 1SS254 or		301BT	1
	CERAMIC CAP. F Z 0.033µF/16V	12208871		1	DIODE GMB01B		S254T77**	1
C 6012	CERAMIC CAP. F Z 0.033µF/12V or	122Z790T	<u>. </u>	D 1502	DIODE 1SS254 or		B01BT	1
	CERAMIC CAP, F Z 0.033µF/16V	126B107S	-		DIODE GMB01B		S254T77**	1
C 7001	ELECTROLYTIC CAP. 100µF/10V M	126F474S		D 1503	DIODE 1SS254 or		B01BT	
C 7002	ELECTROLYTIC CAP. 0.47µF/50V M	3F40104T		1	DIODE GMB01B		S254T77**	1
C 7003	CERAMIC CAP, F Z 0.1µF/50V	22541045		D 1504	DIODE 1SS254 or		B01BT	1
C 7004	MYLAR CAP. 0.1µF/50VJ	22541545		1	DIODE GM801B	1	SS254T77++	1
C 7005	MYLAR CAP. 0.15µF/50VJ	2254154S		D 2001	DIODE 1SS254 or		B01BT-3	1
C 7006	MYLAR CAP. 0.15µF/50VJ	126E476S		1	DIODE GMB01B		SS254T77##	
C 7007	ELECTROLYTIC CAP. 47µF/35V M	3841121T		D 2002	DIODE 1SS254 or		SSZSER (JERRE) IBO1BT :	7.0
C 7008	CERAMIC CAP. B J 120pF/50V	126F105S			DIODE GMB01B			die
C 7009	ELECTROLYTIC CAP. 1µF/50V M	1		D 2003	DIODE 1SS254 or	•	SS254T77**	ांठ
C 7010	ELECTROLYTIC CAP. 1000µF/6.3V M	126A108S 126C477		1	DIODE GMB01B	1	ABO1BT	
C 7011	ELECTROLYTIC CAP, 470µF/16V M	3841331T		D 2004	DIODE 1SS254 or	1	\$\$254T77**	1
C 7012	CERAMIC CAP, B J 330pF/50V	126F474S		1	DIODE GMB01B	1 -	ABO1BT	
C 7013	ELECTROLYTIC CAP, 0.47µF/50V M	126F105S		D 2005	DIODE 1SS254 or	1	SS254T77**	
C 7014	ELECTROLYTIC CAP. 1µF/50V M	3841271T		1	DIODE GMB01B	1-	MB01BT	-
C 7015	CERAMIC CAP, B J 270pF/50V	126F474S		D 2006	DIODE 1SS254 or	111	SS254T77**	1
C 7016	ELECTROLYTIC CAP. 0.47µF/50V M	3841102T		1	DIODE GMB01B		MB01BT	
C 7017	CERAMIC CAP. B J 0.001 µF/50V	126C476S		D 2007	DIODE 1SS254 or		ISS254T77** MB01BT	
C 7018	ELECTROLYTIC CAP. 47µF/16V M	126C107S		1.	DIODE GMB01B	1 -	MB0181 1SS254T77**	
C 7019	ELECTROLYTIC CAP. 100µF/16V M	3X4C562T	1	D 2008	DIODE 1SS254 or	1		-
C 7020	CERAMIC CAP. X K 0.0056µF/16V	126C106S	1	-	DIODE GMB01B		MB01ET 1SS254T77**	
C 7021	ELECTROLYTIC CAP. 10µF/16V M	126C106S		D 3201	DIODE 1SS254 or		155254177## IMB01BT	
C 7022	ELECTROLYTIC CAP. 10µF/16V M	126C106S	١	l	DIODE GMB01B		1SS254T77**	
C 7023	ELECTROLYTIC CAP. 10µF/16V M	126F474S	1	D 6001	DIODE 1SS254 or	1.	MB01BT	-
C 7024	ELECTROLYTIC CAP. 0.47µF/50V M	12205228	1	- 1	DIODE GMB01B		MBUIDI 1SS254T77**	.
C 8001	SEMICONDCAP. F Z 0.1µF/16V	3S41470T	1	D 6004	DIODE 1SS254 or		MB01BT	
, C 8002	CERAMIC CAP, SL J 47pF/50V	126C106S	1	1	DIODE GMB01B		1SS254T77**	.
C 8003	ELECTROLYTIC CAP. 10µF/16VM	126C106S	1	D 6005			SMB01BT	`
C 8005	ELECTROLYTIC CAP. 10µF/16V M	126A107S	1	1	DIODE GMB01B	- 1	A1SS254T77**	.
C 8006	ELECTROLYTIC CAP. 100µF/6.3V M	3B41101T	1	D 6008		1	GMB01BT	`
C 8008	CERAMIC CAP. B J 100pF/50V	3C41150T	1	i	DIODE GMB018		GMB0151 A1SS254T77##	.
C 8501	CERAMIC CAP, CH J 15pF/50V	3C41150T	1	D 6010	DIODE 1SS254 or	1	A155254177≇1 GMB01BT	٠ ١
C 8502		3X4C222T	1	- 1	DIODE GMB01B	1	GMB0161 A1SS254T77⊕	.
C 8503		3X4C472T		D 601	DIODE 1SS254 or	t t		•
C 8504		32F1473S	1		DIODE GMB01B	ł	GMB01BT	
C 8505	CERAMIC CAP. F Z 0.047µF/12V	i i	1	D 601			A1SS254T77#	*
C 8506	CERAMIC CAP. F Z 0.022µF/25V or	122Z122T		1	DIODE GMB01B		GMB01BT	.
1	CERAMIC CAP. F Z 0.022µF/25V	1220843T	1	D 700	1		AMTZSR6BT7	
C 850		3B41221T	-	D 700	1		A1SS254T77*	*
C 850	9 CERAMIC CAP, SLJ 15pF/50V	3S41150T	1		DIODE GMB01B	1	GMB01BT	- {
C 851	O CERAMIC CAP, SL J 30pF/50V	3S41300T		D 700	DIODE 1SS254 or		A1SS254T77	**
C 851	1 CERAMIC CAP. F Z 0.022µF/25V or	122Z122T	1		DIODE GMB01B		GMBOTBT	1
- [CERAMIC CAP, F Z 0.022µF/25V	1220843T		0.80	DIODE 188254 or		A1SS264T774	**
C 851	2 ELECTROLYTIC CAP. 10µF/16V M	126C106S		15 30	DIODE GMB01B		GMB018T	- 1
C 851	3 CERAMIC CAP, B J 0.001 µF/50V	3B41102T		D 80			AMTZ5R6A	- 1
C 851	4 CERAMIC CAP, B J 0.001μF/50V	3B41102T		1000	ZENER DIODE MTZ5.68 or		AMTZ5R68+	
1	CONNECTORS		_	- 1	ZENER DIODE MTZ5.6C		AMTZ5R6C#	
CN15	· · · · · · · · · · · · · · · · · · ·	WX1K2870-001	-	D 85			AMTZ5R6AT	
CN20		J3TKJ10TGH0F		1000	ZENER DIODE MTZ5.6B or		AMTZ5R68T	
10,120	TKC-M10P-A1				ZENER DIODE MTZ5.6C		AMTZ5R6CT	77*
1	INO-MIOL MI			1	ZENER DIODE MIZD.OC		MILESTICO	

K2870EL2

Ref. No.	Description	Part No.
	ics	
C1501	YUL TAGE REGUESTOTI & PATTOMOST ST.	AN78M05F
1	VOLTAGE REGULATOR IC NUM78M05FA	J78M05FA
C1502	VOLTAGE REGULATOR IC AN78M05F or	AN7BM05F
	VOLTAGE REGULATOR IC NJM78M05FA	J78M05FA
IC2001	IC/SERVO EARMOO1	QSMEA0SRM001
IC2002	IC (OP-AMP.) BA10324A	QSBLA0SRM002
IC2003	IC (OP-AMP.) BA10324A	QSBLA0SRM002
IC2004	IC MOTOR DRIVER BA6219B	14LF232
IC2005	IC MOTOR DRIVER BA6209N	14LF492
IC6001	MICRO CONTROLER 4BIT SY/CXP50120-Q	QSMQAORSN007
IC6002	IC RESET PST-529C-2	14D0665Z
IC6003	IC RESET IC-PST529F-2	GR591399****
IC6004	IC X24C01P	GX24C01P0000
IC7001	VOLTAGE REGULATOR IC AN78M09F or	AN78M09F
	VOLTAGE REGULATOR IC NJM78M09FA	14L0241
IC7002	IC (OP-AMP.) BA10324A	QSBLA0SRM002
IC7003	IC LA7210 or	14LQ115
	IC MM1021 XS	GMM1021XS***
IC7004	IC L5631	L5631
IC8001	IC 8U4053B	14DF268
IC8501	IC OSD UPD6450CX-519	OSMGAOSNE001
	COILS	
L 7001	INDUCTOR 330µH-K-26T	LLAXKDTKA331
L 8501	MICRO INDUCTOR 33µH-J-AXT	2164330T
-	TRANSISTORS	
Q 1501	TRANSISTOR 2SA934(Q) or	A934QZ
[TRANSISTOR 2SA934(R)	A934RZ
0 1502	RES. BUILT IN TRANSISTOR DTC124ES or	C124ESZ
1302	RES. BUILT IN TRANSISTOR 2SC3400	C3400Z
Q 1503	RES BUILT IN TRANSISTOR DTA143XS	A143XSZ
Q 1503	IRES. BUILT IN TRANSISTOR DTC124ES or	C124ESZ
Q 1304	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
0 2001	RES. BUILT IN TRANSISTOR DTC124ES or	C124ESZ
Q 2001	RES. BUILT IN TRANSISTOR 29C3400	C3400Z
	RES. BUILT-IN TRANSISTOR DTA124ES or	A124ESZ
Q 200 2	RES. BUILT-IN TRANSISTOR 2SA1346	A1346Z
	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
Q 200 3	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
	TRANSISTOR 2SA933(Q) or	A933QZ
0 2004	TRANSISTOR 2SA933(R) or	A933RZ
1	TRANSISTOR 2SA608SP(E) or	A608SEZ
1	TRANSISTOR 2SA608SP(F)	A608SFZ
0 2005	RES. BUILT-IN TRANSISTOR DTC144ES	C144ESZ
0 2005	TRANSISTOR 2SC1740(Q) or	C1740QZ
Q 2006	TRANSISTOR 2SC1740(R) or	C1740RZ
1	TRANSISTOR 2SC536SP(E) or	C536SEZ
1	TRANSISTOR 2SC536SP(F)	C536SFZ
0 000	TRANSISTOR 2SA1317(S) or	A1317SZ
Q 3201	TRANSISTOR 2SA1317(5) of TRANSISTOR 2SA1317(T)	A1317TZ
	RES. BUILT-IN TRANSISTOR DTA124ES or	A124ESZ
Q 6001	RES. BUILT-IN TRANSISTOR 2SA1346	A1346Z
1_		A124ESZ
2 6002	RES. BUILT-IN TRANSISTOR DTA124ES or	A1346Z
1	RES. BUILT-IN TRANSISTOR 2SA1346	
0 6003	RES. BUILT-IN TRANSISTOR DTA124ES or	A124ESZ
1	RES. BUILT-IN TRANSISTOR 2SA1346	A1346Z
0 6004	RES. BUILT-IN TRANSISTOR DTC124ES or	
	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z

Ref. No.	Description	Part No.
2 7001	TRANSISTOR 2SA933(Q) or	A933QZ
	TRANSISTOR 2SA933(R) or	A933RZ
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	A608SFZ
Q 7002	TRANSISTOR 2SC1740(Q) or	C1740QZ
4.002	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC50USP Ellor	C536SEZ
	TRANSISTOR 2SC5 38 12 20 1	C536SFZ
Q 7003	RES. BUILT-IN TRANSFEL ++ DTA124ES or	A124ESZ
Q 7003	RES. BUILT-IN Treas	A1346Z
Q 7004	RES. BUILT-IN TRAVERSION DTC124ES or	C124ESZ
Q 7004	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 8002	TRANSISTOR 2SC1740(Q) or	C1740QZ
U 8002	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 25C536SP(F)	C536SFZ
0 0003	TRANSISTOR 2SC1740(Q) or	C1740QZ
Q 8003	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
l	TRANSISTOR 2SC536SP(F)	C536SFZ
İ		C1740QZ
Q 8004	TRANSISTOR 2SC1740(Q) or TRANSISTOR 2SC1740(R) or	C1740RZ
l		C536SEZ
1	TRANSISTOR 2SC536SP(E) or	C536SFZ
l	TRANSISTOR 2SC536SP(F)	C1740QZ
Q 8005	TRANSISTOR 2SC1740(Q) or	C1740BZ
	TRANSISTOR 2SC1740(R) or	C536SEZ
ì	TRANSISTOR 2SC536SP(E) or	C536SFZ
	TRANSISTOR 2SC536SP(F)	QQSZDTA114TS
Q 8006	RES. BUILT-IN TRANSISTOR DTA114TS	1
Q 8501	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 8502	TRANSISTOR 2SC1740(Q) or	C17400Z
1	TRANSISTOR 2SC1740(R) or	C1740RZ
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
	RESISTORS	
R 1501	CARBON RES. 1/5W J 100K Ω or	1324104T
	CARBON RES. 1/6W J 100K Ω or	132A104T
1	CARBON RES. 1/4W J 100K Ω	RCX4JATZ0104
R 1502	CARBON RES. 1/5W J 560 Ω or	1324561T
1	CARBON RES. 1/6W J 560 Ω or	132A561T
1	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R 1503	CARBON RES. 1/5W J 1K Ω or	1324102T
1	CARBON RES. 1/6W J 1K Ω or	132A102T
	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 1504	CARBON RES. 1/5W J 3.3K Ω or	1324332T
İ	CARBON RES. 1/6W J 3.3K Ω or	132A332T
1	CARBON RES. 1/4W J 3.3K Ω	RCX4JATZ0332
R 1505	CARBON RES. 1/5W J 2.2K Ω or	1324222T
1	CARBON RES. 1/6W J 2.2K Ω or	132A222T
	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 1506	METAL RES. 1W J 2.2Ω	1330393
R 2001	CARBON RES. 1/5W J 150 Ω or	1324151T
n 2001	CARBON RES. 1/6W J 150 Ω or	132A151T
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
	CARBON RES. 1/5W J 22K Ω or	1324223T
D 00		
R 2002		132A223T
R 2002	CARBON RES. 1/6W J 22K Ω or CARBON RES. 1/4W J 22K Ω	132A223T RCX4JATZ0223

		Part No.	Ref. No.	Description
Ref. No.	Description	1324563T	R 2023	CARBON RES. 1/5W J 4.7K Ω or
R 2003	CARBON RES. 1/5W J 56K Ω or	1324563T		CARBON RES. 1/6W J 4.7K Ω or
	CARBON RES. 1/6W J 56K Ω or	RCX4JATZ0563	1	CARBON RES. 1/4W J 4.7K Ω
	CARBON RES, 1/4W J 56K Ω	1324103T	R 2024	CARBON RES. 1/5W J 1K Ω or
R 2004	CARBON RES. 1/5W J 10K Ω or	132A103T		CARBON RES. 1/6W J 1K Ω or
	CARBON RES. 1/6W J 10K Ω or	PICX4JATZ0103		CARBON RES. 1/4W J 1K Ω
	CARBON RES. 1/4W J 10K Ω	1324103T	R 2025	CARBON RES. 1/5W J 56K Ω or
R 2005	CARBON RES. 1/5W J 10K Ω or	1324103T	1	CARBON RES. 1/6W J 56K Ω or
	CARBON RES. 1/6W J 10K Ω or	RCX4JATZ0103	Į.	CARBON RES. 1/4W J 56K Ω
	CARBON RES. 1/4W J 10K Ω	1324105T	R 2026	CARBON RES. 1/5W J 3.6K Ω or
R 2006	CARBON RES. 1/5W J 1M Ω or	132A105T	1	CARBON RES. 1/6W J 3.6K Ω or
	CARBON RES. 1/6W J 1M Ω or	RCX4JATZ0105	l	CARBON RES. 1/4W J 3.6K Ω
	CARBON RES. 1/4W J 1M Ω	1324223T	R 2027	CARBON RES. 1/5W J 15K Ω or
R 2007	CARBON RES. 1/5W J 22K Ω or	132A223T	- 1	CARBON RES, 1/6W J 15K Ω or
	CARBON RES. 1/6W J 22K Ω or	RCX4JATZ0223	1	CARBON RES. 1/4W J 15K Ω
	CARBON RES. 1/4W J 22K Ω	1324473T	R 2028	CARBON RES. 1/5W J 56K Ω or
R 2008	CARBON RES. 1/5W J 47K Ω or	132A473T	 	CARBON RES. 1/6W J 56K Ω or
1	CARBON RES. 1/6W J 47K Ω or	RCX4JATZ0473		CARBON RES. 1/4W J 56K Ω
	CARBON RES. 1/4W J 47K Ω	1324472T	R 2029	CARBON RES. 1/5W J 39K Ω or
R 2009	CARBON RES. 1/5W J 4.7K Ω or CARBON RES. 1/6W J 4.7K Ω or	132A472T		CARBON RES. 1/6W J 39K Ω or
i		BCX4JATZ0472		CARBON RES. 1/4W J 39K Ω
١	CARBON RES. 1/4W J 4.7K Ω CARBON RES. 1/5W J 1K Ω or	1324102T	R 2030	CARBON RES. 1/5W J 39K Ω or
R 2010	CARBON RES. 1/6W J 1K Ω or	132A102T		CARBON RES. 1/6W J 39K Ω or
1		RCX4JATZ0102		CARBON RES. 1/4W J 39K Ω
l	CARBON RES. 1/4W J 1K Ω	1324103T	R 2031	CARBON RES. 1/5W J 47K Ω or
R 2011	CARBON RES. 1/5W J 10K Ω or CARBON RES. 1/6W J 10K Ω or	132A103T		CARBON RES. 1.6W J 47K Ω or
1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103		CARBON RES. 1/4W J 47K Ω
		1324393T	R 2032	CARBON RES. 1/5W J 3.3K Ω or
R 2012	CARBON RES. 1/5W J 39K Ω or	132A393T		CARBON RES. 1/6W J 3.3K Ω or
1	CARBON RES. 1/6W J 39K Ω or	RCX4JATZ0393	1	CARBON RES. 1/4W J 3.3K Ω
1	CARBON RES. 1/4W J 39K Ω	1324682T	R 2033	CARBON RES. 1/5W J 820 Ω or
R 2013	CARBON RES. 1/5W J 6.8K Ω or	132A682T		CARBON RES. 1/6W J 820 Ω or
]	CARBON RES. 1/6W J 6.8K Ω or	RCX4JATZ0682	1	CARBON RES. 1/4W J 820 Ω
1	CARBON RES. 1/4W J 6.8K Ω	1324154T	R 2034	CARBON RES. 1/5W J 100K Ω or
R 2014		132A154T		CARBON RES. 1/6W J 100K Ω or
1	CARBON RES. 1 6W J 150K Ω or	BCX4JATZ0154		CARBON RES. 1/4W J 100K Ω
1	CARBON RES. 1/4W J 150K Ω	1324563T	R 2035	METAL RES. 2W J 2.2 12 or
R 2015		132A563T		METAL RES. 2W J 2.2 Ω
1	CARBON RES. 1/6W J 56K Ω or	RCX4JATZ0563	R 2036	CARBON RES. 1/5W J 820 Ω or
	CARBON RES. 1/4W J 56K Ω	1324563T	1	CARBON RES. 1/6W J 820 Ω or
R 2016		132A563T	l 1	CARBON RES, 1/4W J 820 Ω
1	CARBON RES. 1/6W J 56K Ω or CARBON RES. 1/4W J 56K Ω	RCX4JATZ0563	R 2037	CARBON RES. 1/5W J 4.7K Ω or
		1324473T	1	CARBON RES. 1/6W J 4.7K Ω or
R 201	CARBON RES. 1/6W J 47K Ω or	132A473T	1 1	CARBON RES. 1/4W J 4.7K Ω
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473	R 2038	CARBON RES. 1/5W J 82K Ω or
D		1324104T		CARBON RES. 1/6W J 82K Ω or
R 201	CARBON RES. 1/6W J 100K Ω or	132A104T		CARBON RES. 1/4W J 82K Ω
1	CARBON RES. 1/4W J 100K Ω	RCX4JATZ0104	R 2039	
		1324473T		CARBON RES. 1/6W J 1.2K Ω 0
R 201	CARBON RES. 1/6W J 47K Ω or	132A473T	1	CARBON RES. 1/4W J 1.2K Ω
1	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473	R 2040	
		1324563T		CARBON RES, 1/6W J 10K Ω or
R 202	CARBON RES. 1/6W J 56K Ω or	132A563T		CARBON RES. 1/4W J 10K Ω
1	CARBON RES. 1/4W J 56K Ω	RCX4JATZ0563	R 204	
		1324103T	1	CARBON RES. 1/6W J 10K Ω o
R 20	CARBON RES. 1/6W J 10K Ω or	132A103T		CARBON RES, 1/4W J 10K Ω
1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 204	2 CARBON RES. 1/5W J 10K Ω o
		1324102T	1 1	CARBON RES. 1/6W J 10K Ω 0
R 20	CARBON RES. 1/5W J 1K Ω or	1324102T		CARBON RES. 1/4W J 10K Ω
1	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	1 1	
L	TOANDORNES, 1/417 J IN 12	1		

Part No.

RCXAJATZ0472

RCXAJATZ0102

RCX4JATZ0563

RCX4JATZ0362

RCXAJATZ0153

RCX4JATZ0563

RCX4JATZ0393

RCX4JATZ0393

RCX4JATZ0473

BCX4JATZ0332

RCX4JATZ0821

RCX4JATZ0104

1324472T

132A472T

1324102T

132A102T

1324563T

132A563T

1324362T

132A362T

1324153T

132A153T

1324563T

132A563T

1324393T

132A393T

1324393T

132A393T

1324473T

132A473T

1324332T

132A332T

1324821T

132A821T

1324104T

132A104T

1330458

1330343

1324821T

132A821T

1324472T

132A472T

1324823T

132A823T

1324122T

132A122¥

1324103T

132A103T

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132A103T

HOX4JATZ0103

RCX4JATZ0821

RCX4JATZ0472

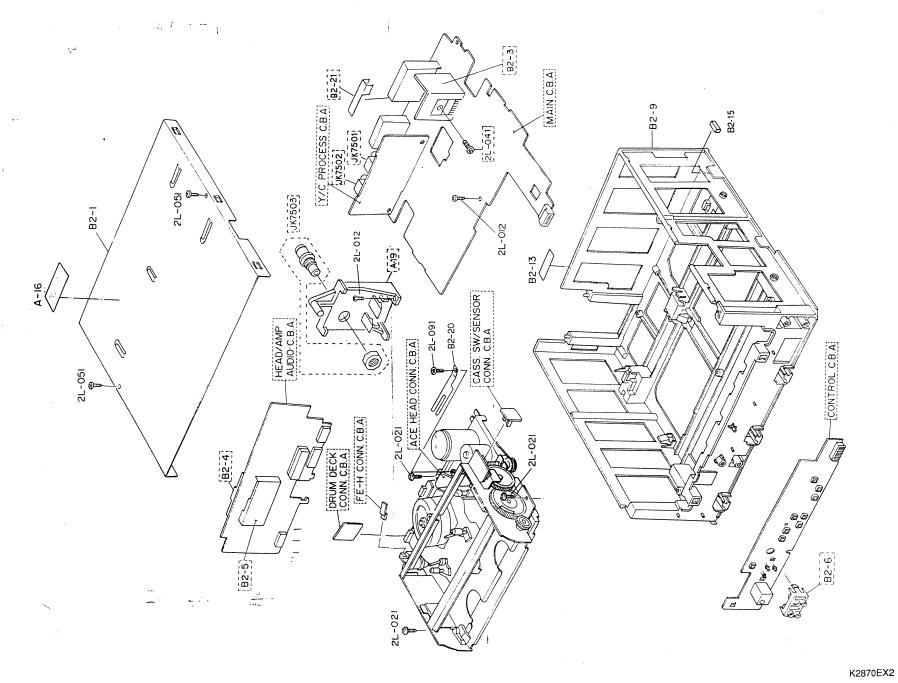
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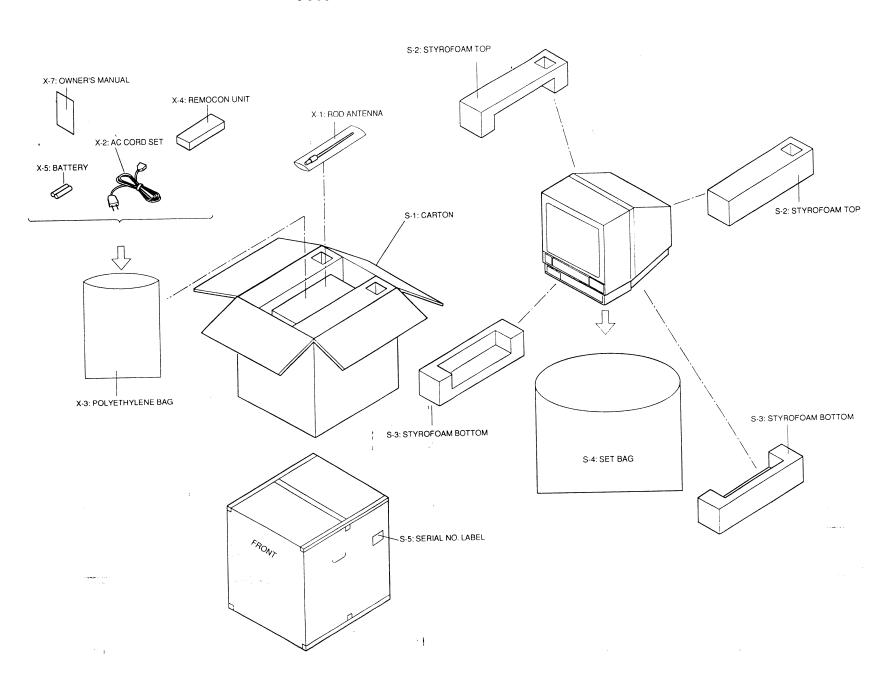
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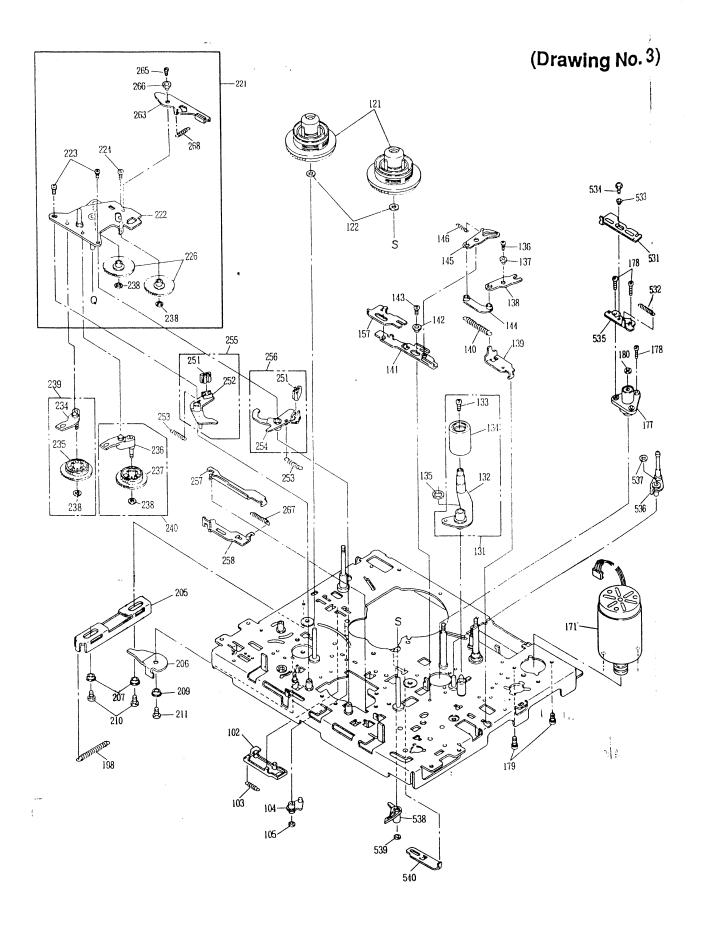
- RCX4JATZ0103

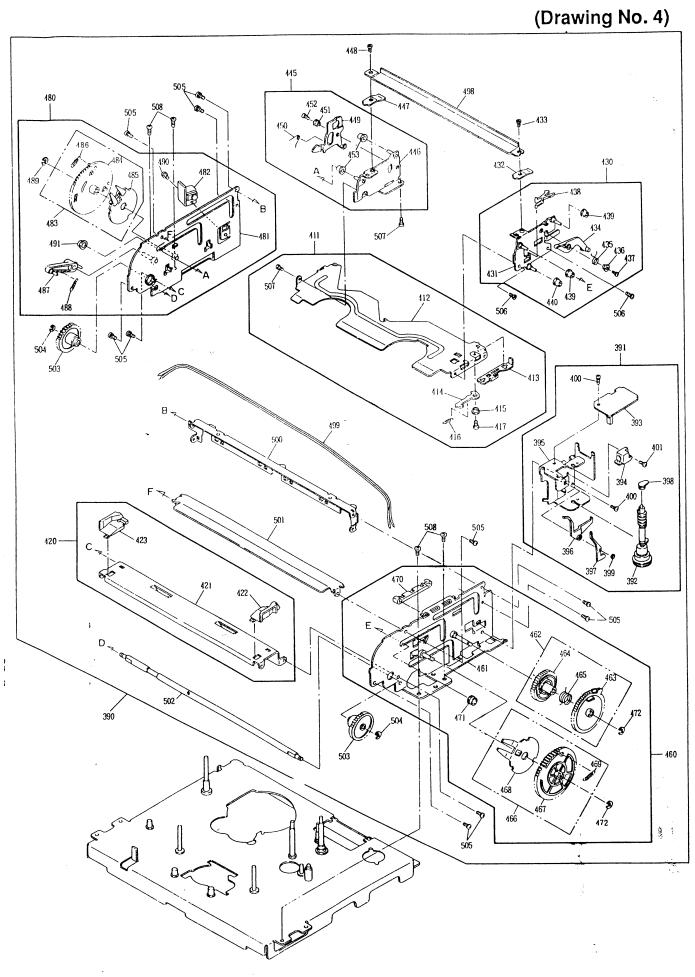
CABINET EXPLODED VIEW [VCR]



PACKING EXPLODED VIEW







506EXP

MECHANICAL REPLACEMENT PARTS LIST [VCR]

Ref. No.	Description	Part No.
N- 16	LABEL CHASSIS NO. K2874RA	0VM404211
A- 19	(See Electrical Replacement Parts List)	
32-1	COVER, TOP ASS'Y K1880UA	0VM201132
32-3	(See Electrical Replacement Parts List)	
32-4	(See Electrical Replacement Parts List)	
32- 5	(See Electrical Replacement Parts List) -	
32- 6	(See Electrical Replacement Parts List)	
32-9 -	CHASSIS K1870UA	0VM000015
32- 13 ^J	T.P CUSHION K1803UA	0VM403356
B2- 15	CHASSIS SPACER K1870UA	0VM403736
B2- 20	PLATE, GROUND VD4841	6S50212
B2- 21	(See Electrical Replacement Parts List)	
2L- 012	SCREW, P-TIGHT, BIND HEAD 3X10	GBMP3100
2L- 021	SCREW, P-TIGHT, WASHER HEAD 3X10	GCMP3100
2L- 041	(See Electrical Replacement Parts List)	1
2L- 051	SCREW, P-TIGHT, BIND HEAD 3X10	GBMP3100
2L- 091	SCREW, SEMS, PAN HEAD M3X5	CPM33050
-	LABEL SERIAL NO. VD5004	6E50105
-	DECK ASS'Y TN5900P1NRM554	0VDK00085

MECHANICAL REPLACEMENT PARTS LIST [TV]

Ref. No.	Description	Part No
A- 1	FRONT CABINET	0EM100329
TA- 2	MOUNING BOSS A	0EM400077
TA- 3	REAR CABINET	0EM100330
TA- 4	CONTROL DOOR	0EM300501
TA- 5	DOOR PLATE	0EM401303
TA- 6	POWER KNOB	0EM400164
Γ A - 7	S/E KNOB	0EM400095
TA- 8	PLATE A	0EM401304
A- 9	PLATE B	0EM401305
A- 10	CONTROL PLATE	0EM300431
A- 11	CASSETTE DOOR	0EM300437
A- 12	LATCH VD7762	6D51218
A- 13	LED PLATE	0EM401310
A- 14	RATING LABEL	0EM401306
14:05 S.	BRAND BADGE	0EM400975
A- 16	MAIN POWER KNOB EM40656	21NH251
TB- 1	PCB HOLDER	0EM000061
B-2	TENSION SPRING EM40808	26WH006
TB-3	CRT MOUNTING SCREW K42419	8A00083
B- 4	DOOR SPRING	0EM400105
B- 5-	DOOR CUSHION	0EM400106
TB- 6	CLOTH TS7346	24WE420

	1	1
TL- 1	P-TIGHT SCREW BRASSIRE+ M3X8	GFMP3080
TL- 2	P- TIGHT SCREW BRASSIRE+ M3X8	GLMP3080
TL- 3	S- TIGHT SCREW CUP+ M3X8	GFMS3080
TL- 5	B- TIGHT SCREW BIND+ M3X8	GBMB3080
TL- 6	B- TIGHT SCREW BIND+ M3X8	GBMB3080
TL- 7	B- TIGHT SCREW BIND+ M3X8	GBMB3080
TL- 8	B- TIGHT SCREW BIND+ M3X16	GBMB3160
TL- 10	TAPPING SCREW BIND+ M4X14	DBM14140
TL- 12	P- TIGHT SCREW BIND+ M3X16	GBKP3160
TL- 13	P-TIGHT SCREW BIND+ M3X10	GBKP3100
TL- 14	P ₁ TIGHT SCREW PAN HEAD+ M3.5X10	GBKPT100
TL- 16	P-TIGHT SCREW BIND+ M4X18	GBMP4180
S- 1	CARTON	0EM401307
S- 2	STYROFOAM TOP	0EM000053
S- 3	STYROFOAM BOTTOM	0EM000050
S- 4	SET BAG	0EM300173
S- 5	SERIAL NO. LABEL: EM40416	24LH033
X- 1	ROD ANTENNA —	0EMN00542
X- 2	AC CORD SET	WAE0182LW001
X- 3	POLYETHYLENE BAG	Z325350
X- 4	REMOTE CONTROL UNIT	UREMT29MS006
X- 5	DRYBATTERY "RO3" 2PCS PACK or	1790902
	DRY BATTERY "RO3" 2PCS PACK or	XB0M641FA001
	DRY BATTERY "RO3" 2PCS PACK or	579W100
	DRY BATTERY "R03" 2PCS PACK	1790741
X- 7	OWNER'S MANUAL	0EMN00556

K2874CA

DECK REPLACEMENT PARTS LIST

1 2 3 4 5 6 7 8 9	No. 1 1 1 1 1 1 1	Cylinder Assembly (Consists of 2~10, 12~16, 20) Drum, Upper Drum Assembly, Lower	1 1	8059-72-40A 8059-01-19
2 3 4 5 6 7 8	1 1 1 1	Drum, Upper		8059-01-19
3 4 5 6 7 8	1 1 1		1 1	
4 5 6 7 8	1 1 1	Didni Assembly, Lower		8059-01-304
5 6 7 8	1 1	Mount, Cylinder	1	8059-01-01
6 7 8	1		11	8059-01-305
7 8		P.C.B. Assembly, Video Out	1	9973-00-00
8		Screw, W Sems, M2.6 x 6	1	6004-09-02
	1	Motor	3	9055-00-00
9		Screw, C-tight, M2.6 x 20	2	9098-00-00
	1	Screw, Sems, M2.6 x 6	2	9972-00-00
10	1	Screw, Bind Sems, M3 x 8	3	9205-90-00
11	1	Screw, C-tight, M3 x 10	. 1	9999-18-18
12	1	Screw, B-tight M2 x 5	1	9665-00-00
13	1	Screw, Cap, M2 x 3	1	8059-01-54
☆14	11	Flat Spring Ground, Drum	1	9192-00-00
15	1	Screw, C-tight, M2.6 x 5	1	8059-01-02
16	1	Bracket, Drum Ground	1	8059-01-347
17	1	P.C.B. Assembly, DM	1	9192-00-00
18	1	Screw, C-tight, M2.6 x 5	1	8059-01-23
☆19	1	Drum Ground		9715-00-00
20	1	Washer, Toothed Lock, M2.6	1	
23	1	Connector Bracket		8059-01-71
32	2	Open Angle	11	8059-02-301
33	2	Screw, C-tight, M2.6 x 4	11	9191-00-00
34	2	Adjuster, Tracking	11	8059-02-29
35	2	Guide, Tape	11	8000-03-14
36	2	Spring, Tape Guide		8059-02-26
37	2	Cap, Guide	1	8000-03-19
38	2	Flange (C), Tape Guide		8000-03-28
39	2	Flange (D), Tape Guide		8000-03-29
40	2	Nut M3.0		9453-00-00
41	2	Rubber, Damper		8059-02-23
51	1	Loading Base	11	8059-03-501
52	1	Block (L), Loading	11	8059-03-04
	 	Block (R), Loading	1	8059-03-05
53		Roller Post ST	1	8000-03-37
54	1	Roller Post ST	1	8000-03-37
55	1		2	9665 00 00
56	11	Screw, Cup, M2.6 x 3	2	9550-00-00
57	11	Screw, Set, M2.0 x 3 (Plane Type)	2	9192-00-00
58	11	Screw, C-agrit, M2.6 x 3	1	8059-03-502
59	11	Plate (L), Loading	2	8059-03-14
60	11	Boss, Loading	1	8059-03-08
61	11_	Spring (L), Loading Gear	1	8059-03-06
62	1	Gear (L), T Loading	1	8059-03-503
63	1	Plate (R), Loading	1	8059-03-09
64	1	Spring (R), Loading Gear	1	8059-03-07
65	1	Gear (R), T Loading	2	
66	1	Washer, Polyslider #2.6 x #6 x t0.5	1	8059-03-301
67	1	Loading Base Assembly (Consists of 51~57, 60, 66, 68, 69)	1	8059-03-302
68	1	Loading Gear (L) Assembly (Consists of 59, 61~62)	1	8059-03-303
69	1	Loading Gear (R) Assembly (Consists of 63~65)		8059-04-308
81	3	Head Base Assembly (Consists of 82~85, 88~89)		6204-15-06

NOTE: ☆ Items 14 and 19 must be replaced together.

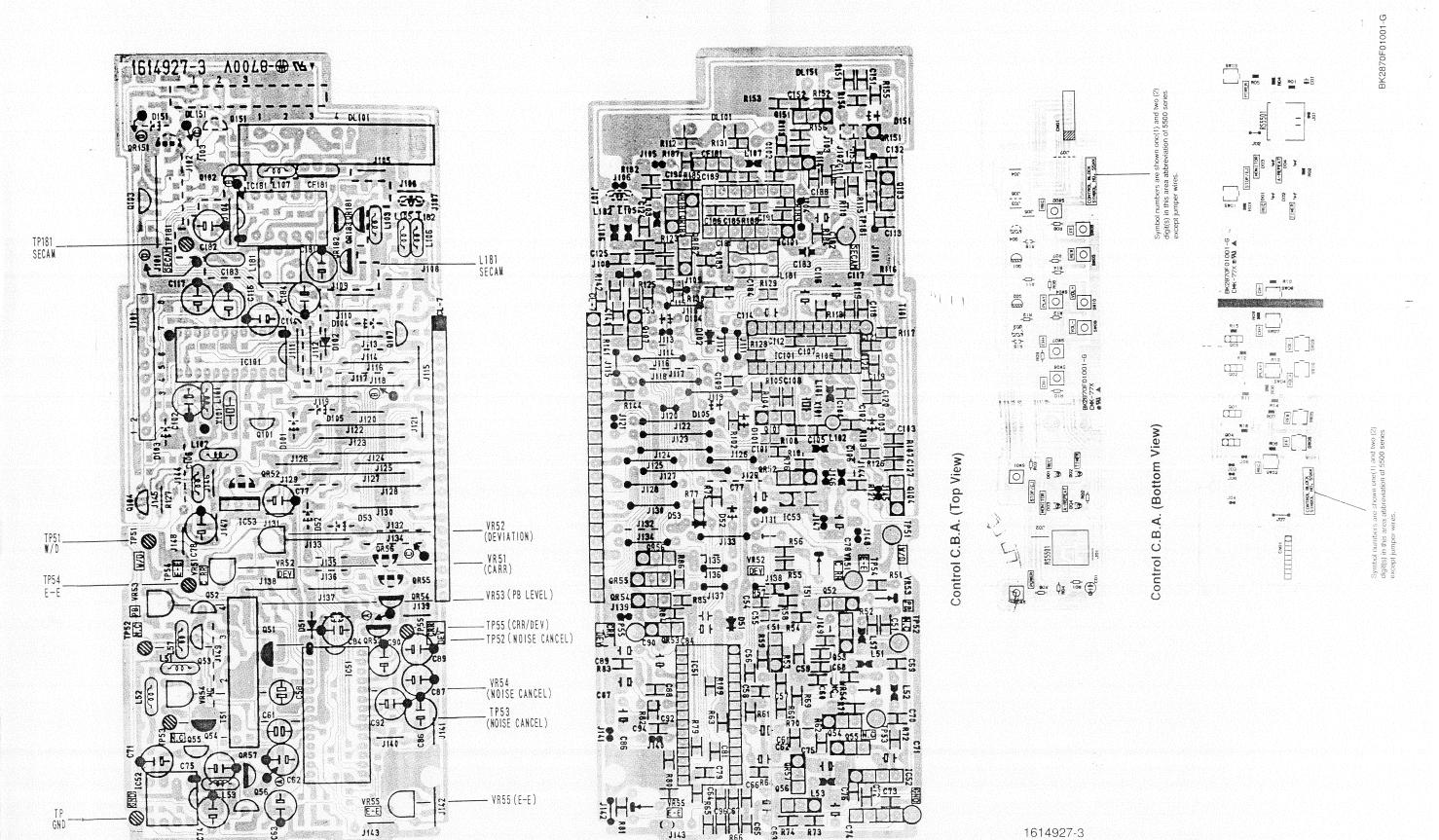
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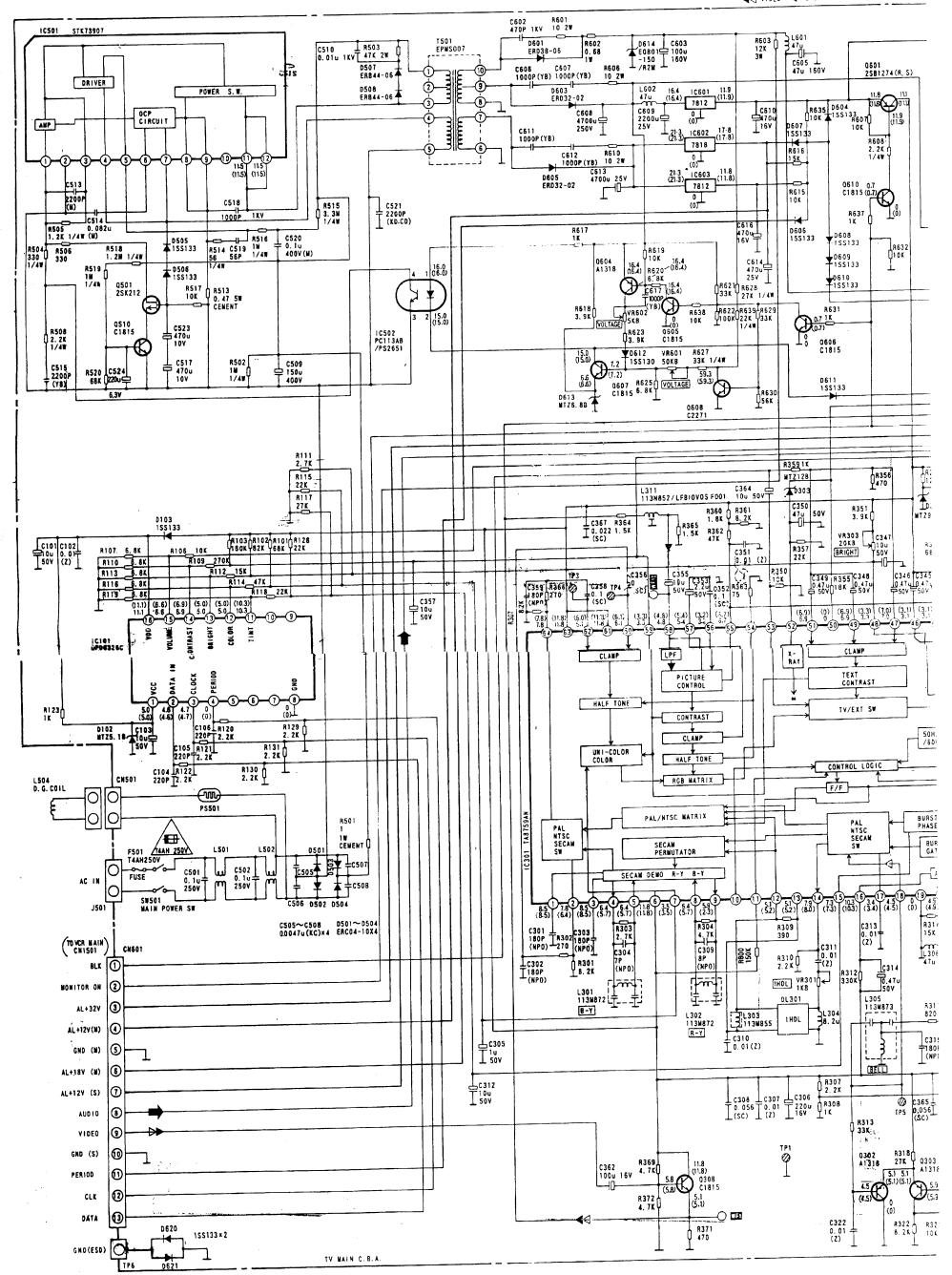
Ref. No.	Drawing No.	Description	Q'ty	Part No.
83	3	Base, Head	1	8059-04-502
84	3	Screw, Azimuth Spring	1	8000-06-26
85	3	Spring, Azimuth	11	8000-06-04
86	3	Nut, Nylon M3	1	9953-00-00
88	3	Screw, M2.6 x 7	1	9705-00-00
89	3	Screw, Set, M3 x 6	1	9999-20-25
	. 3	Spring, Head	1	8059-04-15
90	3	Plate Assembly, Full Erase (Consists of 92~94)	1	8059-04-302
91		Head, Full Erase	1	6204-15-03
92	3	Plate, Full Erase	1	8059-04-04
93	3	Screw, Flange Bind, M2 x 3	1	9114-00-00
94	3		1	9953-00-00
95	3	Nut, Nylon M3	1	8059-04-05
96	3	Holler, Impedance	1.	8059-04-06
97	3	Sieeve, Impedance Roller	1	8059-04-07
98	3	Flange (A), Tape Guide	1	8059-04-09
99	3	Spring, Tape Guide Flange	1	9337-00-00
100	3	Washer, Plane ø3 x ø8 x t0.5	+ ;	8059-04-08
101	3	Spring, FE Plate	+ ;	8059-04-10
102	3	Plate, FE Slide	+ +	8059-04-12
103	3	Spring, FE Actuate	1	8059-04-11
104	3	Lever, FE Actuate	1	9876-00-00
105	3	Washer, Polyslider #2.1 x #5 x t0.5	2	8059-05-301
121	3	Reel Assembly	2	9912-00-00
122	3	Washer, #3.1 x #6 x t0.5	1	8059-06-301
131	3	Arm Assembly, Pinch Roller (Consists of 132~134)	+ +	8059-06-501
132	3	Arm, Pinch Roller	+-;-	9038-00-00
133	3	Screw, M2.6 x 4	+ ;	8000-09-22
134	3	Roller (A), Pinch	+ ;	9999-03-11
135	3	Washer, Polyslider, ø5 x ø8 x t0.5	+ ;	9096-00-00
136	3	Screw, Sems, M2.6 x 4		
137	3	Collar	+ !-	8059-06-18 8059-06-05
138	3	Angle, P Actuate	1	
139	3	Holder, P Angle	1	8059-06-19
140	3	Spring, P Roller	1 1	8059-06-20
141	3	Plate (A), P Slide	1 1	8059-06-24
142	3	Collar	1	8059-06-18
143	3	Screw, C-tight, M2.6 x 5	1	9192-00-00
144	3	Joint Plate	11_	8059-06-06
145	3	Arm, P Actuate	1_1_	8059-06-04
146	3	Spring, P Actuate Arm	1 1	8059-06-09
147	2	Crank, P	1_1_	8059-06-12
148	2	Collar, P Crank	1_1_	8059-06-13
149	2	Screw, C-tight FH (For Camera), M2.6 x 4	1	9999-18-10
150	2	Slider, P	1	8059-06-10
151	2	Spring, P Slider	1	8059-06-23
152	2	Collar, P Slider	1	8059-06-11
153	2	Screw, C-tight, M2.6 x 5	1	9192-00-00
154	2	Lever, P Cam	1	8059-06-502
155	2	Collar, P Cam Lever	1	8059-06-17
156	2	Screw, C-tight, M2.6 x 5	1	9192-00-00
157	3	Plate (B), P Slide	1	8059-06-25
	3	Motor Assembly, Capstan	1	8059-07-302
171	2	Capstan, Flywheel	1	8059-07-14
172			1	8059-07-10
173	2	Belt, Main	1	8059-07-303
174	2	Angle Assembly, Flywheel Screw, C-tight, M3 x 5	2	9202-00-00
175	2	Washer, ø3.1 x ø6 x t0.5	1	9912-00-00
176	2		1	8059-07-301
177 178	3	Housing Assembly, Metal Screw, C-tight, M2.6 x 8	3	9195-00-00

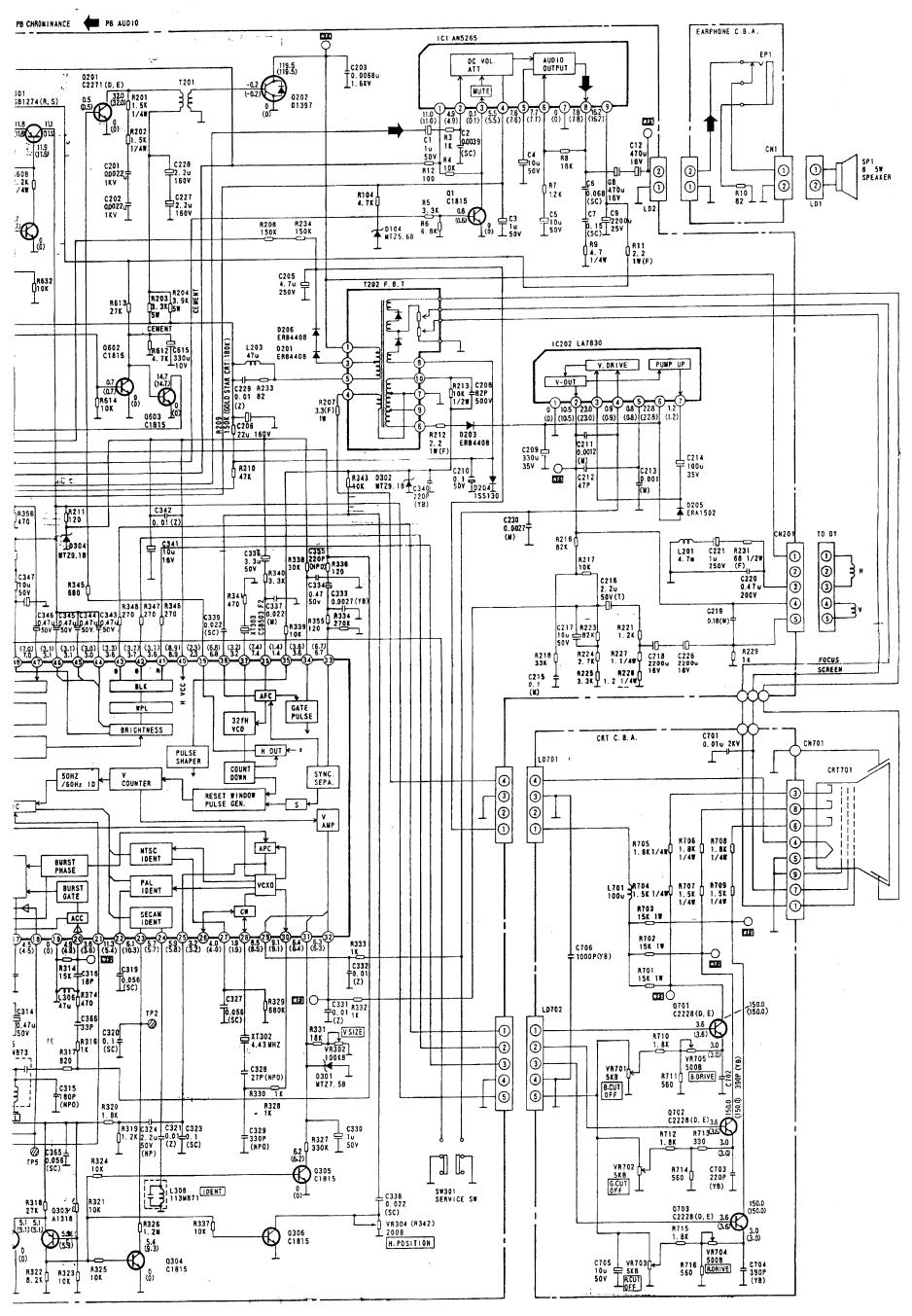
Ref. No.	Drawing	Description	Q'ty	Part No.
tel. No.	No.		2	9105-00-00
179	3	Screw, Sems, M3 x 4	1	9999-06-03
180	3	Nylon Washer 2.92 x 5 x 0.5	11	8059-08-501
191	3	Arm, Back Tension	1	9191-00-00
192	3	Screw, C-tight, M2.6 x 4	1	8059-08-09
193	3	Support, Back Tension	1	9191-00-00
194	3	Screw, C-tight, M2.6 x 4	1	8059-08-15
195	, 3	Collar, Band Holder	1	8059-08-302
196	3	Band, BT	1	8059-08-17
197	3	Spring, Band Holder	111	8059-08-13
198	1_1_	Spring, Back Tension Washer, Polyslider, ø2.1 x ø4 x t0.5	11	9999-03-15
199	3		1	8059-08-10
200	2	Plate, BT Change	1	8059-08-23
202	2	Lever, BT Return	1	8059-06-18
203	2	Collar	11	9192-00-00
204	2	Screw, C-tight, M2.6 x 5	1	8059-08-19
205	1 1	Plate, BT Actuate	1	8059-08-18
206	1 1	Lever, BT Actuate Collar, BT Actuate Plate	2	8059-08-21
207	1 1	Spring, BT Actuate Plate	1	8059-08-20
208	3	Collar	1	8059-06-18
209	1 !	Screw, S-tight (For Camera) M2.6 x 3.5	2	9840-00-00
210	+ !-	Communic State M2.6 v 5	11	9192-00-00
211	1 3	Plate Assembly (Consists of 222~224, 226, 238, 263, 265~266, 268)		8059-09-312
221	3	Plate Semi Assembly		8059-09-503
222	3	Screw, Sems, M2 x 4	2	9077-00-00
223	3	Screw, C-tight, M2.6 x 4	1	9192-00-00 8059-09-06A
226	3	Gear, Reel Drive	2	9853-00-00
228	3	Washer, Nylon, ø3.1 x ø6 x t0.3		8059-09-311
229	3	Clutch Assembly	1	9999-06-04
230	3	Washer, Nylon, ø2.98 x ø6 x t0.3		8059-09-301
231	3	Pulley Assembly, Middle	1	9884-00-00
232	3	Washer, Polyslider, ø2.6 x ø6 x t0.5		8059-09-17
233	3	Belt, Drive	- 	8059-09-303
234	3	Arm Assembly, P Gear	1	8059-09-20A
235	3	Gear, Play	- 	8059-09-304
236	3	Arm Assembly, RF Gear	1	8059-09-22A
237	3	Gear, FF	3	9743-00-00
238	2,3	Washer, Polyslider, ø1.6 x ø3.8 x t0.3	1	8059-09-314
239	3	Gear Assembly, P (Consists of 234~235, 238)	- <u> </u>	8059-09-315
240	3	Gear Assembly, RF (Consists of 236~238)	1	8059-09-313
241	2	Return Gear Assembly	- 	8059-09-53
242	2	Retrun Arm	2	8059-10-19
251	3	Shoe, Brake	1	8059-10-01
252	3	Arm, S Brake	2	8059-10-02
253	3	Spring, Brake Arm	1	8059-10-03
254	3	Arm, T Brake	1	8059-10-301
255	3	Arm Assembly, S Brake (Consists of 251, 252)	1	
256	3	Arm Assembly, T Brake (Consists of 251, 254)	1	
257	3	Lifter, Brake	1	
258	3	Actuator, L Brake	1	8059-10-14
259	3	Hook, Trigger	1	
260	3	Lever, Trigger	1	
261	3	Plate, Brake	1	
262		Brake Actuate, Base		
263		Brake, Take-up soft		
264		Brake, S Soft		
265		Screw, SL FH (For Camera), M2 x 3		8059-10-07
266		Collar, Take-up Soft Brake Arm		

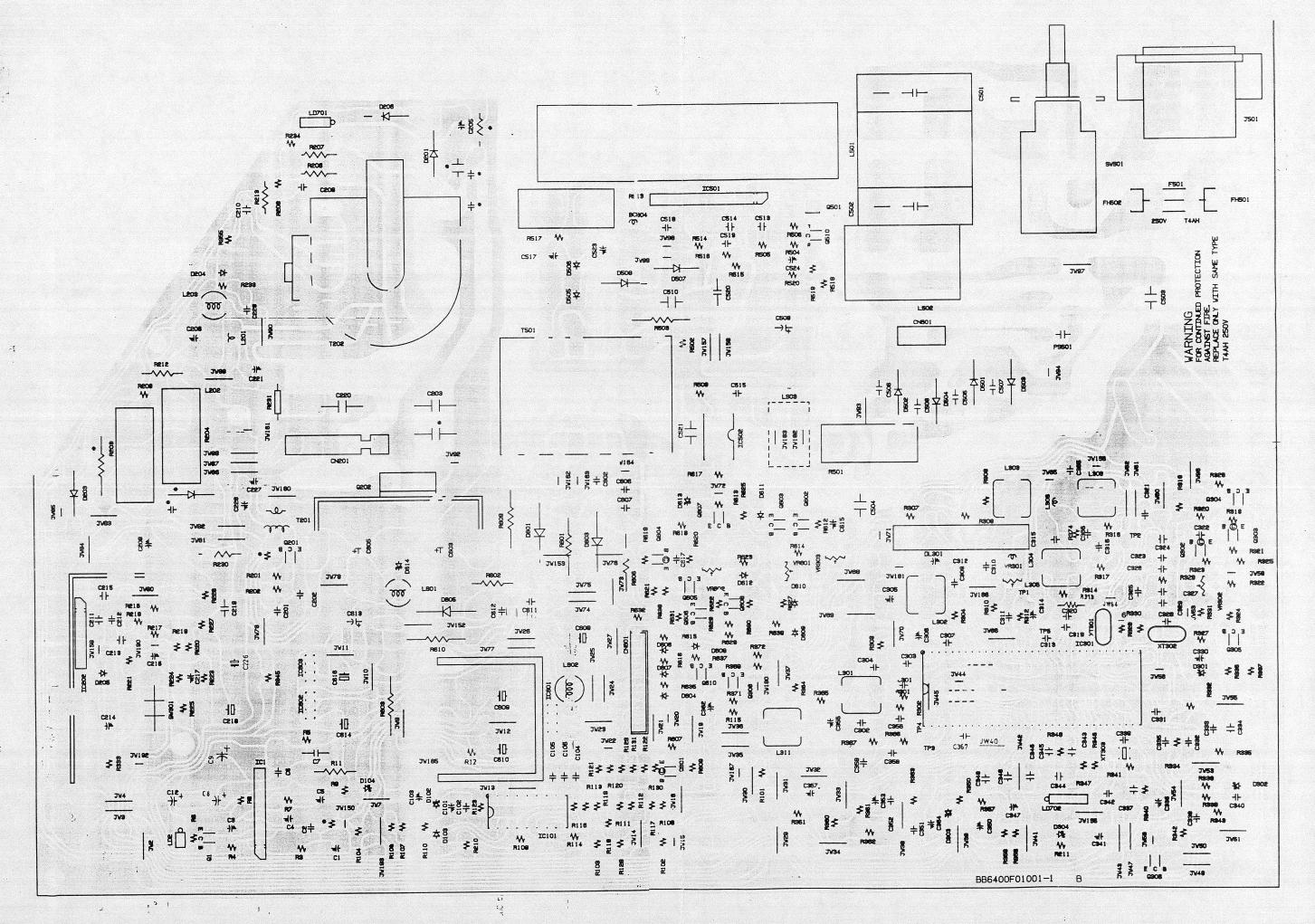
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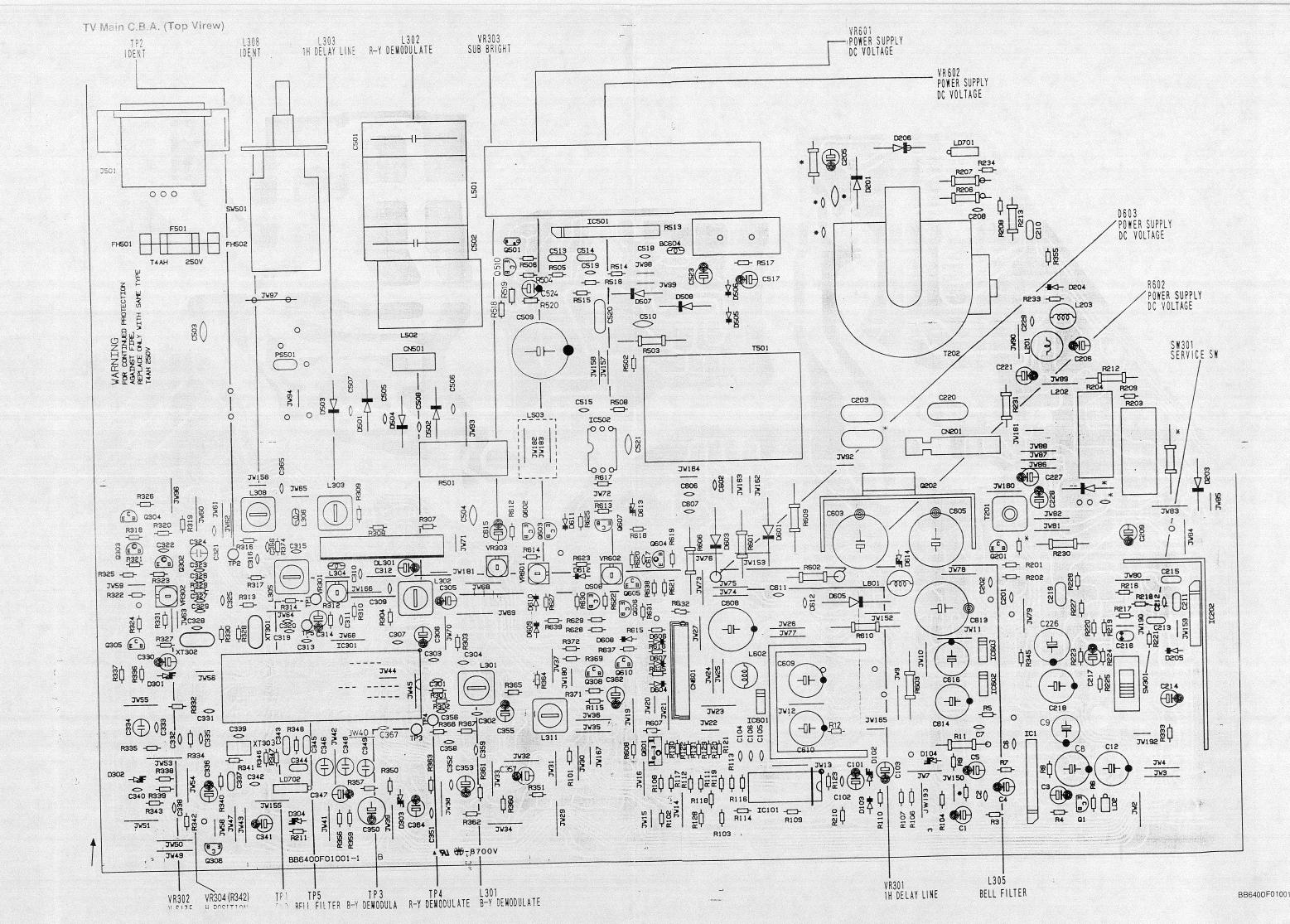
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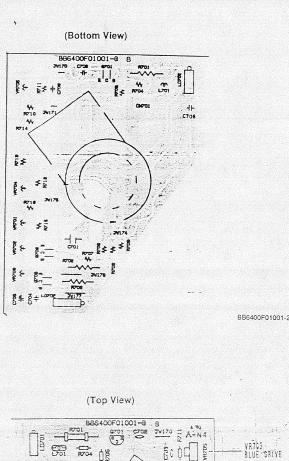


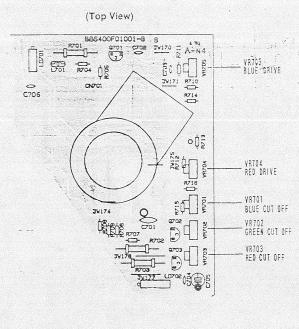


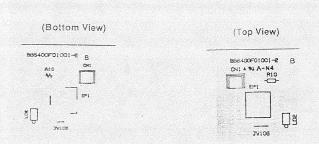


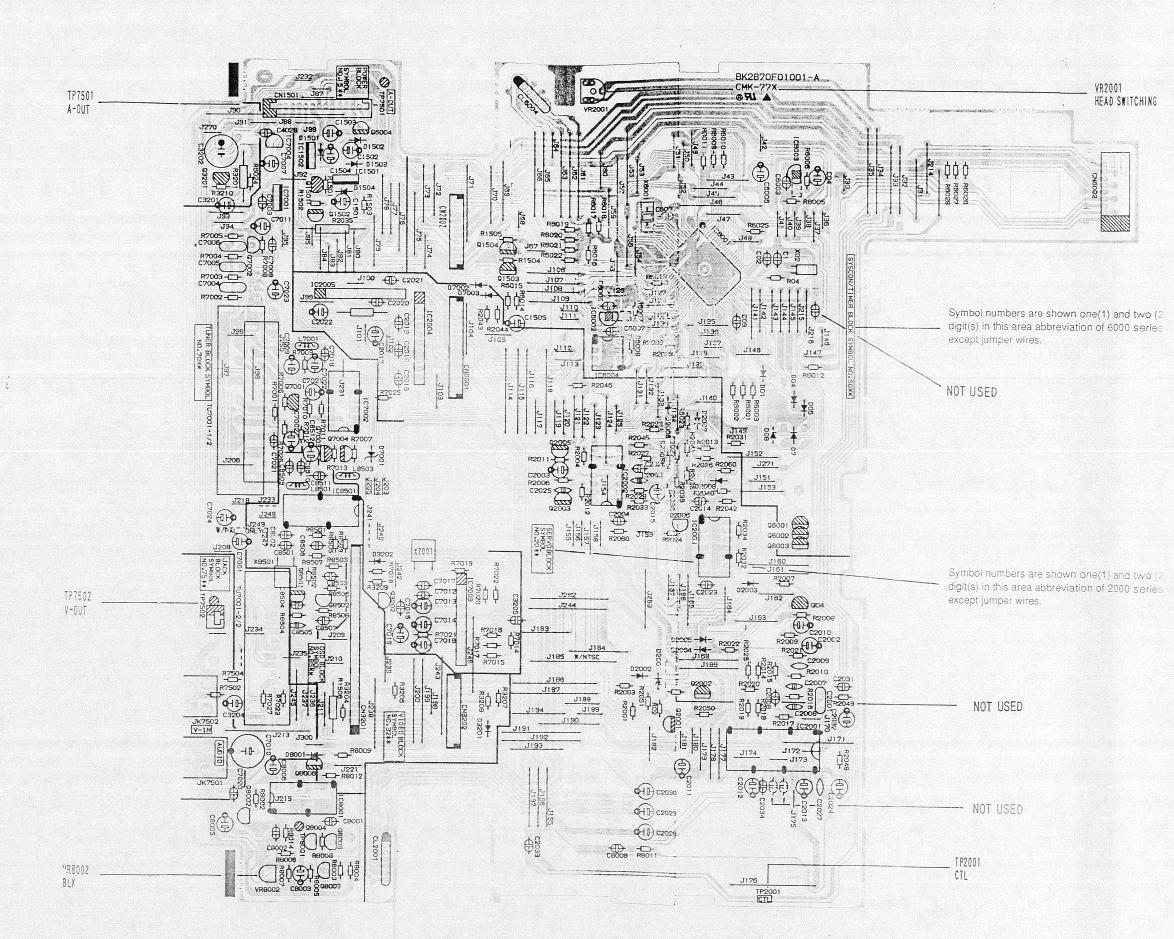


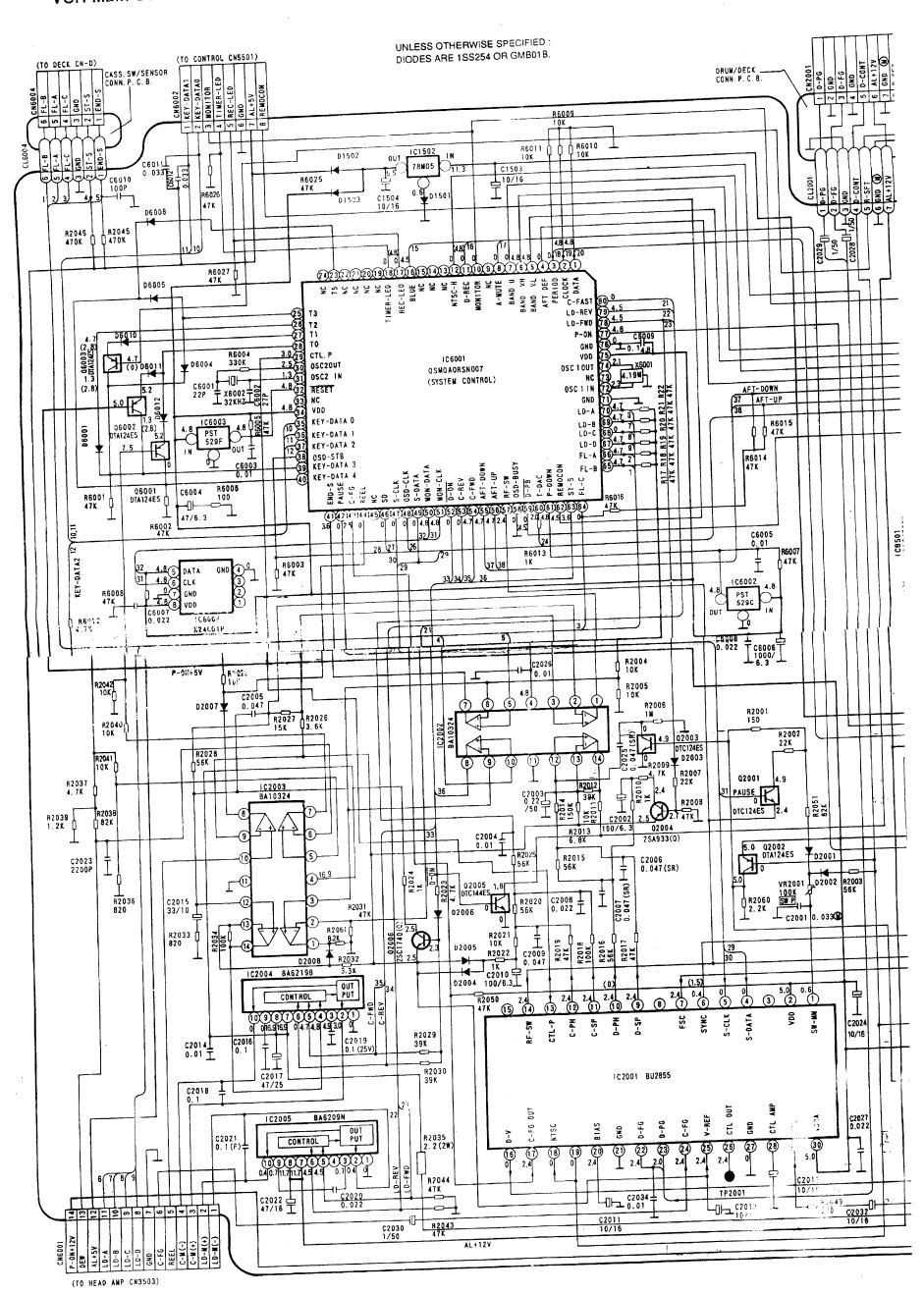


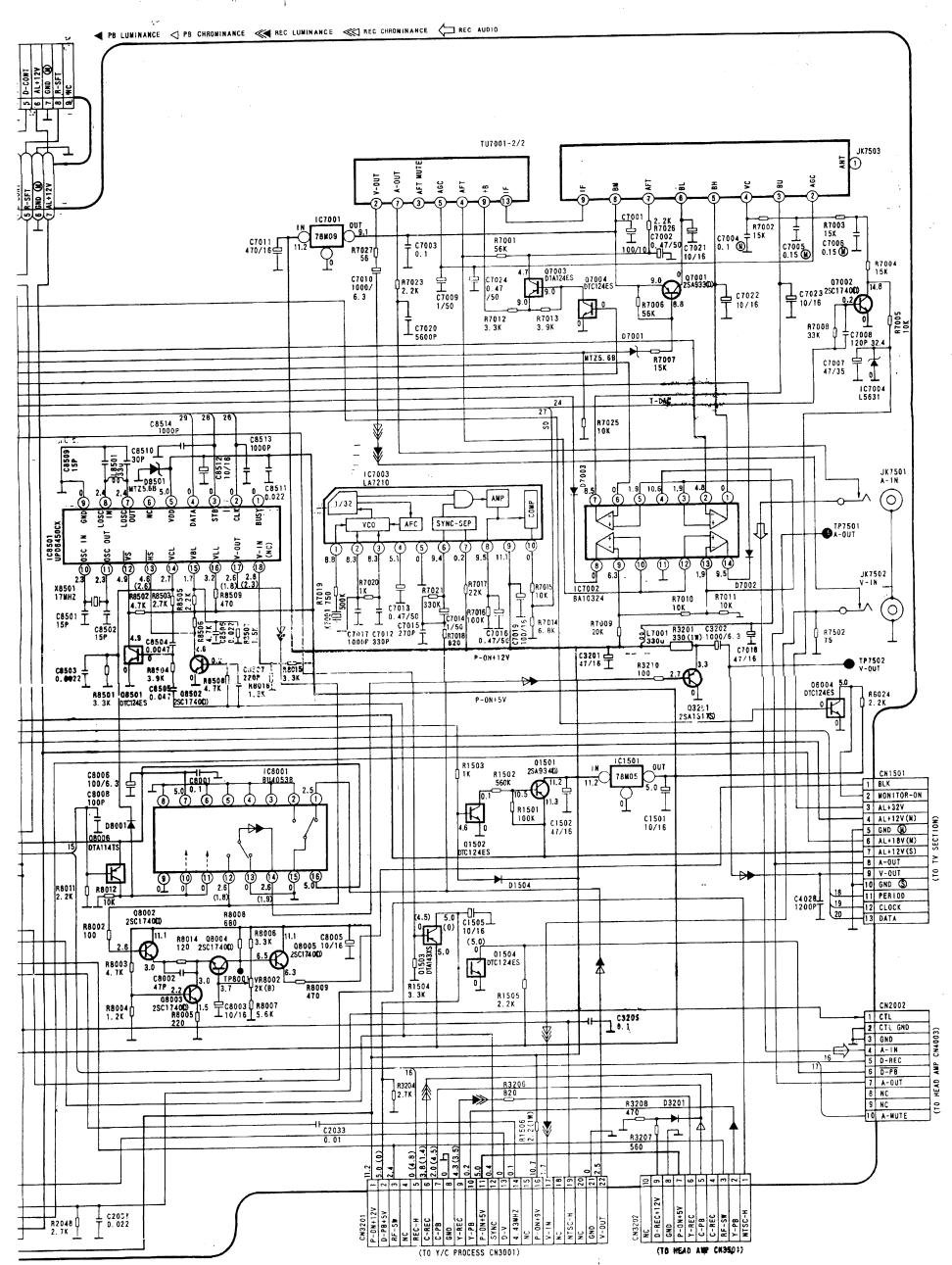


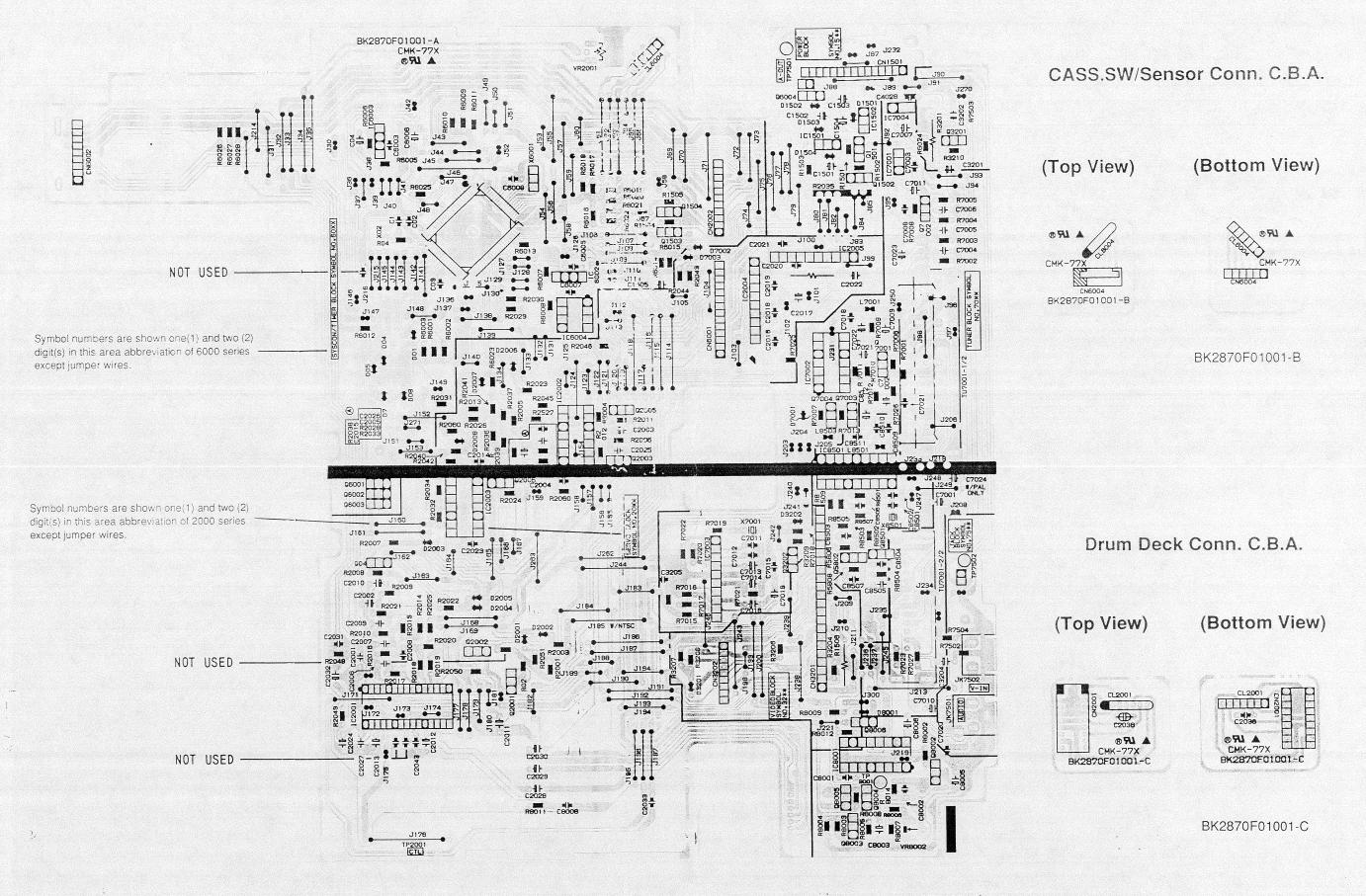




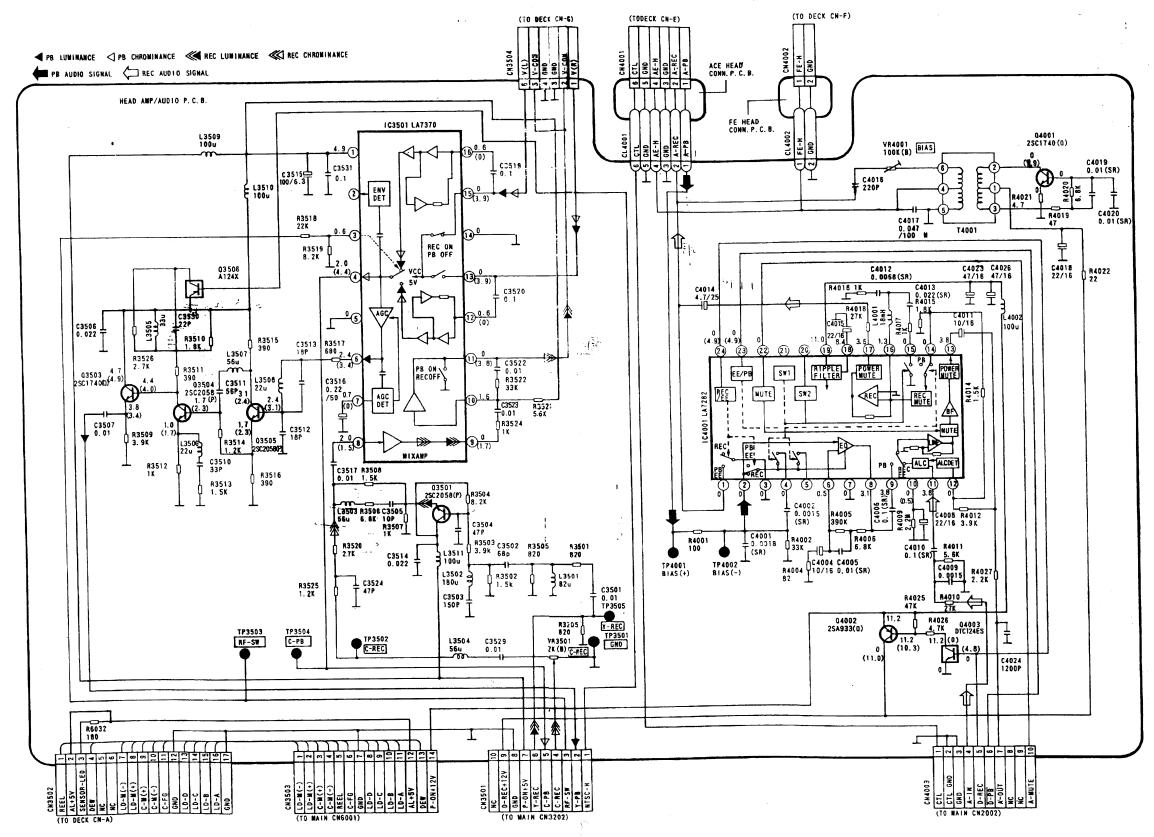




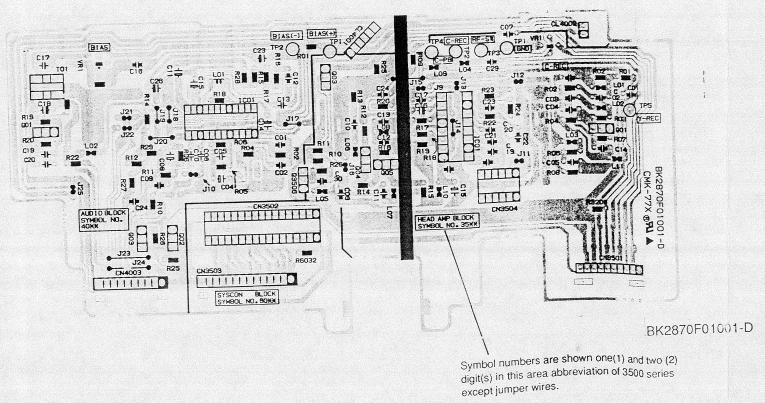




Head Amp /Audio Schematic Diagram



Head Amp/Audio C.B.A. (Bottom View)



ACE Head Conn. C.B.A.

(Top View)

(Bottom View)





FE Head Conn. C.B.A.

(Top View)

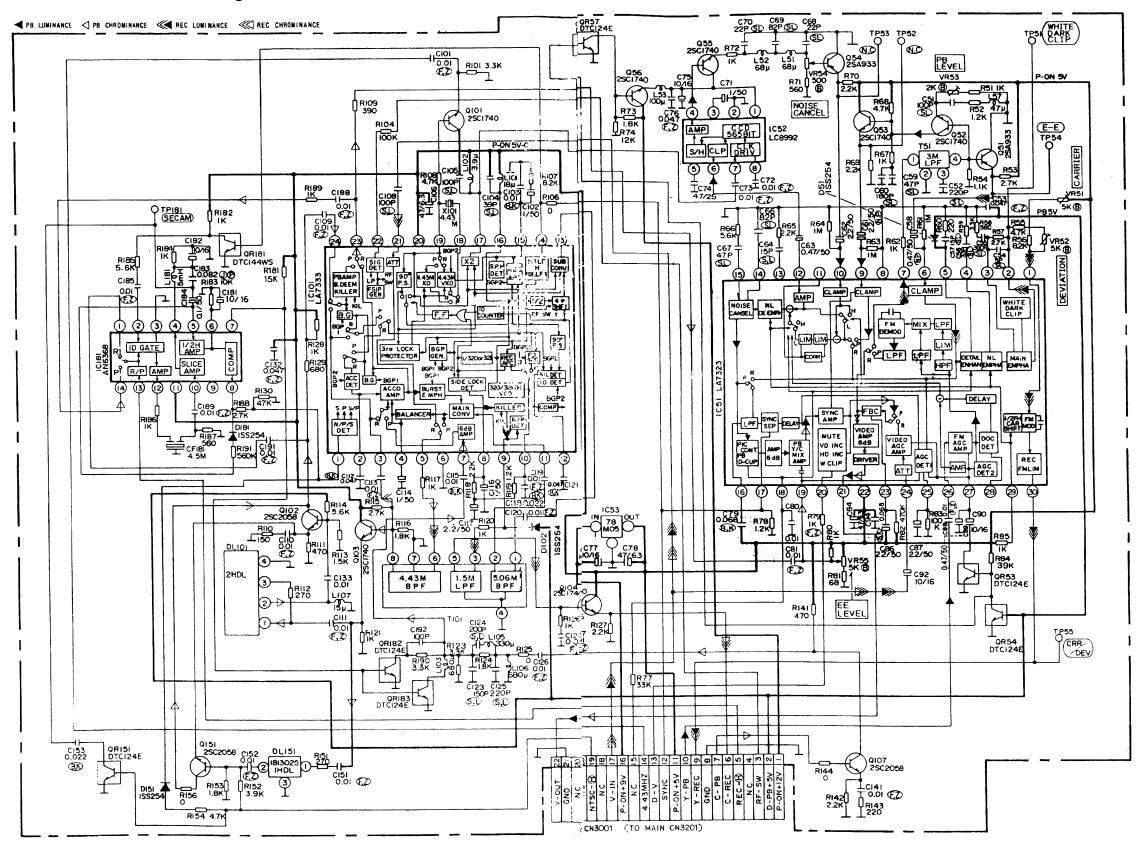
(Bottom View)

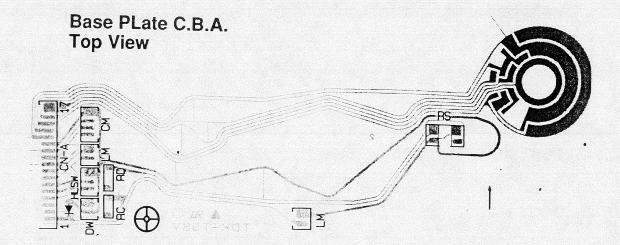




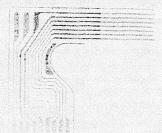
SCHEMATIC DIAGRAMS / C.B.A. AND TEST POINTS

Y/C Process Schematic Diagram

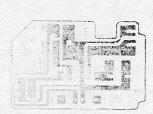




Start Sensor C.B.A. **Top View**



Deck, Front Loading C.B.A. Top View



Drum Motor C.B.A.

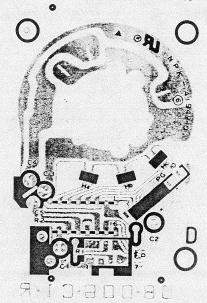
Video Out C.B.A. Top View



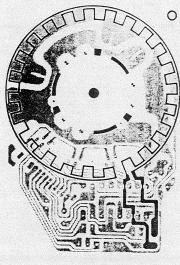
End Sensor C.B.A. **Top View**



Bottom View



Top View



1459400:80 88.0

Full Erase Head C.B.A.



ACE Head C.B.A.



Lamp C.B.A. Top View



